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ABSTRACT

This list of program types and keywords (with codes) was prepared for program officers at the National Endowment for the Humanities, the National Institute of Education, and the National Science Foundation to use when preparing program announcements and requests for proposals. Staff persons responsible for screening such documents at colleges and universities may then use the codes to identify which of the faculty at their institutions should be notified. Twenty-four program types are listed for coding funding announcements or solicitations to indicate the type of activity which may be supported. A Keywords Categorical List includes geographic terms which may either be the subject of research or a project location. The remaining keywords are divided into nine broad categories representing major classifications: (1) agriculture/food sciences/food; (2) arts/humanities/cultural activities; (3) behavioral/social sciences; (4) education; (5) engineering; (6) health and safety; (7) law; (8) management/commerce; and (9) science and technology/mathematics/computer science. An "other" category includes fire/flammability studies, military science/military history/peace/amnesty, recreation and leisure studies, and university/industry cooperative activities. Instructions for assigning terms are included. More than 100 colleges and universities participated in this experimental thesaurus project in 1982-83. Project newsletters, an update for new participants, and an evaluation questionnaire sent to participants along with this version of the thesaurus are attached. (LMM)

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John A. Rodman
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INTRODUCTION

OVERVIEW

The National Endowment for the Humanities, the National Science Foundation, and the National Institute of Education, together with over a hundred colleges and universities, are participating in this experimental Keyword Thesaurus project in 1982-83. Representatives of those government agencies, along with research administrators and faculty from half a dozen universities across the United States, have compiled the list of Program Types and Keywords which begins on page 4. Program officers at NEH, NIE, and NSF will use this coded list when preparing program announcements and RFP's, placing the appropriate Program Type codes and Keyword codes at the beginning of each announcement or solicitation. At colleges and universities across the country, the staff persons responsible for screening such documents may then use the codes to identify which of the faculty at their institutions should be notified. (It is assumed that participating institutions will encourage their faculty to choose as early as possible which Keyword codes best represent their interests. This information may be maintained on a card file, a word processor, or a computer. It is suggested that the entire Thesaurus be available for the faculty's use, since terms of interest may appear in sections which are outside the strict limits of an academic discipline.)

OBJECTIVES

It is hoped that use of this Keyword Thesaurus will bring about greater accuracy in matching the focus of announcements with the research interests of the faculty, time savings of staff in the resource identification process, more timely notification of the faculty, and improved relationships with the faculty. Precise classification of announcements, and an efficient matching system, allowing notification of and response by the most interested and qualified professors, will enhance the effective use of time and energy within the research community as well as within the government agencies. If the experiment proves successful, it is possible that the Thesaurus will be implemented by all federal agencies.

DEFINITIONS

PROGRAM TYPES, coded to funding announcements or solicitations, indicate the types of activity which may be supported.

KEYWORDS--CATEGORICAL LIST:

GEOGRAPHIC TERMS: This is a specialized list of Keywords--a list of geographic areas which may be either the subject of research or the location in which a project is to take place.

Categorical Subdivisions: The remaining Keywords are divided into nine broad categories representing major classifications, and one "OTHER" category. Within most major categories are subtopics, with further groupings under them. There are a few exceptions: HEALTH AND SAFETY, LAW, and MANAGEMENT/COMMERCE are aggregate lists with no subgroupings.

KEYWORDS--ALPHABETICAL LIST is a listing, in alphabetical order, of all the Keyword terms which appear in the Categorical List.

THE CODING SCHEME

A seven-digit code is associated with each unique Keyword term and is assigned according to the term's position in the Categorical List. The first two digits designate the major category, the third and fourth digits designate a subtopic (or a grouping which is not further subdivided) and the last three digits designate a unique term within a subtopic.

Ex. 0605001 = The major category ENGINEERING (06), the subtopic CHEMICAL ENGINEERING (05), and the unique term "Process Development Engineering" (001).

Ex. 0408009 = The major category BEHAVIORAL/SOCIAL SCIENCES (04), the subtopic ECONOMICS (08), and the unique term "Macroeconomics" (009).

There are some terms which appear in more than one place in the Categorical List. If the term has the same meaning, even though it appears in different contexts, it will have only one code associated with it, and that will be assigned to the position which seems the most logical. An italicized code indicates that the code was assigned to the term in another location.

Ex. 1006002 Biomass Energy
The code was assigned to the term "Biomass Energy" under the subtopic ENERGY in the SCIENCE AND TECHNOLOGY/MATHEMATICS/COMPUTER SCIENCE category, but the term also appears under AGRICULTURE, with the code in italics.

INSTRUCTIONS

For a given announcement, the codes for Program Types are used in addition to the codes for Keywords and/or Keyword Geographic Terms, and more than one code from each of these sections may be used.

Ex. Program Types 08 (Cultural Outreach) and 20 (Exhibitions, Collections, Performances) may be used in combination with Keyword codes 0316001 (Dance), 0316002 (Dramatic/Theatre Arts), and 0316005 (Music, Instrumental).

The list of Keyword Geographic Terms may be used in combination with Program Types alone, or together with Program Types and other Keywords.

Ex. Program Type 48 (Travel) and Keyword code 0112070 (Japan) would indicate that travel to Japan would be supported, but would not specify what type of activity would then be undertaken in Japan.

Ex. Program Types 34 (Research) and 48 (Travel) may be used in combination with Keyword codes 0112070 (Japan) and 0309010 (Modern History) to indicate that research and travel would be supported for activities concerning modern Japanese history.

These Geographic Terms may be used with *any* other terms in the Thesaurus, but they seem particularly suitable for combination with such terms as AREA STUDIES (ARTS/HUMANITIES RELATED), FOLK/ETHNIC STUDIES, HISTORY, LANGUAGE AND/OR LITERATURE, VISUAL ARTS, International Trade & Finance, and Environmental Geography.

It is hoped that agency officers will make their coding as specific as possible, but sometimes their focus may be general. It is up to the institution to see that its search routine (whether done manually, by word processor, or by computer) conforms to the directions that are given to its faculty when they select their areas of interest. For example, if faculty members want to see *all* announcements in CRIMINOLOGY (subtopic 0407000), there are two alternatives:

(1) They may indicate the subtopic code 0407000, and all of the specific codes under it; that is, they may list 0407001, 0407002, 0407003, etc.
(2) They may indicate only the code 0407000--*if* the institution intends to perform searches on the level of the first four digits only. The search would then find any program that begins with 0407. If, however, a full seven-digit search is performed, all seven digits must appear in the faculty member's record, and 0407000 would indicate that only announcements coded for the broad subtopic CRIMINOLOGY would be matched to the faculty member.

It should be stressed to all participants that *the agencies will be coding as specifically as possible*, and that *the subtopic codes are not inclusive of the specific codes listed beneath them.* 0407000 (CRIMINOLOGY) is intended to be used only when an announcement is too general to fit into one of the specific terms listed beneath it, or when a specific announcement cannot reasonably be fit into one of the specific terms. For these reasons, faculty members may wish to list the subtopic (0407000, CRIMINOLOGY), along with *one or more* of the specific codes which are of interest to them. In this instance the faculty members would receive announcements coded to the specific codes that were marked, as well as those announcements (which may or may not interest them) which have been coded to the general subtopic only. Again, it is hoped that agency officers will endeavor to use specific codes, and avoid coding announcements with a subtopic code only, thereby limiting most of the "generally" coded announcements to those which *are* general.

If you have any questions regarding the use of this Thesaurus, please contact John Rodman or Elizabeth Hudson at AC 214/690-2211.

PROGRAM TYPES

02	CAPITAL CONSTRUCTION
04	CENTERS: RESEARCH/DEMONSTRATION/SERVICE
06	CONSULTING/VISITING PERSONNEL
08	CULTURAL OUTREACH
10	CURRICULUM DEVELOPMENT
12	DEMONSTRATION
14	DEVELOPMENT
16	DISSEMINATION OF INFORMATION
18	EQUIPMENT
20	EXHIBITIONS, COLLECTIONS, PERFORMANCES
22	FELLOWSHIPS
24	GENERAL OPERATING SUPPORT
26	INTERNSHIPS
28	MATERIALS ACQUISITION (BOOKS, TAPES, ETC.)
30	PRESERVATION/RESTORATION
32	PUBLICATION
34	RESEARCH
36	RESOURCES (SHARED/NON-ACQUISITION)
38	SERVICE DELIVERY PROGRAMS
40	STUDENT SUPPORT (INCLUDING DISSERTATION SUPPORT)
42	SYMPOSIUMS, CONFERENCES, WORKSHOPS, INSTITUTES, SEMINARS
44	TRAINING
46	TRANSLATIONS/EDITING
48	TRAVEL

GEOGRAPHIC TERMS

CONTINENTS

0101000	AFRICA
0101001	Central
0101002	Eastern
0101003	Northern
0101004	Southern
0101005	Western
0102000	ANTARCTICA
0103000	ASIA
0103001	Arabian Peninsula
0103002	Central
0103003	East (Far East)
0103004	Middle East
0103005	Northern
0103006	Southeast
0103007	Southern
0103008	Western
0104000	EUROPE
0104001	British Isles
0104002	Eastern
0104003	Northern
0104004	Scandinavia
0104005	Southern
0104006	Western
0105000	NORTH AMERICA
0106000	OCEANIA (Including Australia)
0107000	SOUTH AMERICA
0107001	Central America

HEMISPHERES

0108001	Eastern Hemisphere
0108002	Northern Hemisphere
0108003	Southern Hemisphere
0108004	Western Hemisphere

ISLANDS AND CHAINS

0109001	Antilles
0109002	Azores
0109003	Bermuda
0109004	Canary Islands
0109005	Falkland Islands
0109006	Galapagos Islands
0109007	Greenland
0109008	Guam
0109009	Mariana Islands
0109010	Pacific Islands Trust Territory
0109011	Polynesia
0109012	Samoa
0109013	Virgin Islands
0109014	West Indies

OCEANS AND SEAS

0110001	Antarctic Ocean
0110002	Arctic Ocean
0110003	Atlantic Ocean
0110004	Baltic Sea
0110005	Bering Sea
0110006	Black Sea
0110007	Caribbean Sea
0110008	China Seas
0110009	Gulf of Mexico
0110010	Hudson Bay
0110011	Indian Ocean
0110012	Japan, Sea of
0110013	Mediterranean Sea
0110014	North Sea
0110015	Pacific Ocean
0110016	Red Sea
0110017	Yellow Sea

POLAR REGIONS

0102000	Antarctic
0111001	Arctic

NATIONS OF THE WORLD

0112001	Afghanistan
0112002	Albania
0112003	Algeria
0112004	Angola
0112005	Argentina
0112006	Australia
0112007	Austria
0112008	Bahamas
0112009	Bahrain
0112010	Bangladesh
0112011	Belgium
0112012	Belize
0112013	Benin
0112014	Bhutan
0112015	Bolivia
0112016	Botswana
0112017	Brazil
0112018	Bulgaria
0112019	Burma
0112020	Burundi
0112021	Cameroon
0112022	Canada
0112023	Cape Verde
0112024	Central African Republic
0112025	Chad
0112026	Chile
0112027	China (People's Republic)
0112028	Colombia
0112029	Comoros
0112030	Congo
0112031	Costa Rica
0112032	Cuba
0112033	Cyprus
0112034	Czechoslovakia
0112035	Denmark
0112036	Djibouti
0112037	Dominica
0112038	Dominican Republic

0112039	Ecuador
0112040	Egypt (United Arab Republic)
0112041	El Salvador
0112042	Ethiopia
0112043	Fiji
0112044	Finland
0112045	France
0112046	French Guiana
0112047	Gabon
0112048	Gambia
0112049	German Democratic Republic (East Germany)
0112050	Germany, Federal Republic of (West Germany)
0112051	Ghana
0112052	Greece
0112053	Guatemala
0112054	Guinea
0112055	Guinea-Bissau
0112056	Guyana
0112057	Haiti
0112058	Honduras
0112059	Hungary
0112060	Iceland
0112061	India
0112062	Indonesia
0112063	Iran
0112064	Iraq
0112065	Ireland
0112066	Israel
0112067	Italy
0112068	Ivory Coast
0112069	Jamaica
0112070	Japan
0112071	Jordan
0112072	Kampuchea (Cambodia)
0112073	Kenya
0112074	Korea
0112075	Kuwait
0112076	Laos
0112077	Lebanon
0112078	Lesotho
0112079	Liberia
0112080	Libya
0112081	Luxembourg
0112082	Madagascar
0112083	Malawi
0112084	Malaysia
0112085	Maldives
0112086	Mali
0112087	Malta
0112088	Mauritania
0112089	Mexico
0112090	Monaco
0112091	Mongolia
0112092	Morocco
0112093	Mozambique
0112094	Namibia
0112095	Nepal
0112096	Netherlands
0112097	New Zealand
0112098	Nicaragua
0112099	Niger
0112100	Nigeria
0112101	Norway
0112102	Oman
0112103	Pakistan
0112104	Panama
0112105	Papua New Guinea
0112106	Paraguay
0112107	Peru
0112108	Philippines
0112109	Poland
0112110	Portugal
0112111	Qatar
0112112	Romania
0112113	Rwanda
0112114	Saint Lucia
0112115	Sao Tome & Principe
0112116	Saudi Arabia
0112117	Senegal
0112118	Seychelles
0112119	Sierra Leone
0112120	Singapore
0112121	Solomon Islands
0112122	Somalia
0112123	South Africa
0112124	Soviet Union (USSR)
0112125	Spain
0112126	Sri Lanka (Ceylon)
0112127	Sudan
0112128	Suriname
0112129	Swaziland
0112130	Sweden
0112131	Switzerland
0112132	Syria
0112133	Taiwan (Nationalist China)
0112134	Tanzania
0112135	Thailand
0112136	Tibet
0112137	Togo
0112138	Trinidad and Tobago
0112139	Tunisia
0112140	Turkey
0112141	Uganda
0112142	United Arab Emirates
0112143	United Kingdom (Great Britain and Northern Ireland)
0112144	United States
0112145	Upper Volta
0112146	Uruguay
0112147	Venezuela
0112148	Vietnam
0112149	Yemen
0112150	Yugoslavia
0112151	Zaire
0112152	Zambia
0112153	Zimbabwe (Rhodesia)

SUBDIVISIONS: ECONOMIC/LINGUISTIC/POLITICAL

0113001	Arab States
0113002	British Commonwealth of Nations
0113003	Developing/Underdeveloped Nations
0113004	European Common Market
0113005	Latin America
0113006	Non-Aligned/Third World Nations
0113007	Soviet Bloc

REGIONS OF THE UNITED STATES

0114001	Alaska
0114002	Atlantic Central
0114003	Great Lakes
0114004	Hawaii
0114005	Midwest
0114006	New England
0114007	Northeast
0114008	Northwest
0114009	Southeast
0114010	Southwest

0200000 AGRICULTURE/FOOD SCIENCES/FOODS

0201000 AGRICULTURE
0201001 Agricultural Chemical Application
0201002 Agricultural Collectives/ Cooperatives
0201003 Agricultural Commodities
0408001 Agricultural Economics
0201004 Agricultural Engineering
0201005 Agricultural Finance
0801002 Agricultural Law
0201006 Agricultural Management
0201007 Agricultural Planning/Policy
0502001 Agriculture Education
0201008 Agronomy
0201009 Animal Behavior/Ethology
0201010 Animal Breeding
0201011 Animal Care
0201012 Animal Communication
0201013 Animal Diseases/Pathology
0201014 Animal Drugs
0201015 Animal Feeds/Nutrition
0201016 Animal Genetics
0201017 Animal Housing
0201018 Animal Physiology
0201019 Animal Science
0201020 Animal Waste
1002003 Bacteriology
1003002 Biochemistry
1002000 Biology
1006002 Biomass Energy
1002013 Botany
0201021 Commodity Futures
0201022 Conservation (Agriculture)
0201023 Crop Insurance
0201024 Crop Science
1002015 Cytology
0201025 Dairy Science
0201026 Drainage
1002016 Ecology
1002017 Embryology
1002018 Entomology
0201027 Farm Machinery
0201028 Farm and Ranch Management
0201029 Fertilizers
0201030 Fish and Fisheries
0201031 Forest Economics
0201032 Forestry and Woodlands
1002019 Genetics
0201033 Grains
0201034 Herbicides
1002021 Histology
0201035 Horticulture
1002023 Immunology
0201036 International Agriculture
0201037 Irrigation
0201038 Land Management
1007006 Land Pollution
1002025 Limnology
0201039 Livestock
0201040 Marketing Agreements (Agri.)
1002027 Microbiology
0201041 Migrant Labor
0201042 Migratory Animals and Birds
1002008 Molecular Biology
1002028 Mutagenics
0201043 Nursery Stock
1002032 Parasitology
0201044 Pest Management
0201045 Pesticides
1002033 Photosynthesis
1002035 Plant Breeding
1002036 Plant Diseases/Pathology
1002037 Plant Genetics
1002038 Plant Nutrition
1002039 Plant Physiology
1002040 Plant Sciences
1002041 Plant Virology
0201046 Plant/Soil Nutrient Bioavailability
0201047 Pollen and Pollination
0201048 Poultry Science
0201049 Production Economics and Management (Agriculture)
1002009 Radiation Biology
0201050 Range Management
0201051 Seed Production
0201052 Soil Sciences
0201053 Soil Sciences, Conservation
0201054 Soil Sciences, Erosion
0201055 Soil Sciences, Soil Genesis
0201056 Stockyards
0201057 Tobacco
0201058 Veterinary Medicine
0201059 Veterinary Toxicology
0201060 Waste Management (Agriculture)
1007008 Water Pollution
0201061 Water Resources (Agriculture)
0201062 Weed Sciences
0201063 Wildlife
0201064 Wood
1002047 Zoology

0202000 FOOD SCIENCES
0202001 Food Additives
0202002 Food Analysis
0202003 Food Chemistry
0202004 Food Consumption
0202005 Food Distribution
0202006 Food Drying
0202007 Food Engineering
0202008 Food Labeling
0202009 Food Management
0202010 Food Manufacturing
0202011 Food Marketing
0202012 Food Practices
0202013 Food Preparation
0202014 Food Preservation
0202015 Food Processing
0202016 Food Safety
0202017 Food Storage
0202018 Food Technology
0202019 Food and Trade Policy
0202020 Foods, Frozen
0202021 Meat Inspection
0202022 Nutrition/Dietetics

0203000 FOODS
0203001 Bakery Products
0203002 Beverages, Alcoholic
0203003 Beverages, Non-Alcoholic
0203004 Cacao Products
0203005 Candy
0203006 Cereals
0203007 Coffee
0203008 Color Additives
0203009 Cottonseeds
0203010 Dairy Products
0203011 Dietary Foods
0203012 Feed Grains
0203013 Fruits
0203014 Meat and Meat Products
0203015 Nuts
0203016 Oils and Fats
0203017 Oilseeds
0203018 Poultry Products
0203019 Seafood
0203020 Spices and Flavorings
0203021 Sugar
0203022 Tea
0203023 Vegetables

0300000 ARTS/HUMANITIES/CULTURAL ACTIVITIES

(See Also: BEHAVIORAL/SOCIAL SCIENCES)

0301000 AESTHETICS

0401000 ANTHROPOLOGY
0401001 Anthropology, Cultural/Social

0402000 ARCHAEOLOGY

0302000 AREA STUDIES (ARTS/HUMANITIES RELATED)
(See Also: AREA & POPULATION STUDIES/SERVICES)

0303000 ARTS, GENERAL/OTHER
0303001 Art Administration
0502003 Art Education
0309004 Art History and Appreciation

0304000 CREATIVE WRITING
0304001 Drama
0304002 Fiction
0304003 Non-Fiction
0304004 Poetry
0304005 Translation

0305000 CRITICISM
0305001 Art Criticism
0305002 Literary Criticism
0305003 Music Criticism
0305004 Theatre/Film Criticism

0306000 CULTURAL ACTIVITIES

0307000 DESIGN ARTS
0307001 Architecture
0307002 Environmental Design/Technology
0307003 Fashion/Textiles Design
0307004 Graphic Design
0307005 Interior Design
0307006 Landscape Architecture/Design
0307007 Regional/Urban Design
(See Also: PLANNING/POLICY STUDIES)
0307008 Set/Theatre Decoration/Design

0308000 FOLK/ETHNIC STUDIES
0308001 Folk/Ethnic Arts
0308002 Folklore and Mythology

0409000 GEOGRAPHY
(See: GEOGRAPHY list under BEH./SOC. SCIENCES)

0309000 HISTORY
0309001 Ancient/Classical
0309002 Byzantine
0309003 Economic History
0309004 History & Appreciation of Art
0309005 History & Appreciation of Music
0309006 History of Law
0309007 History of Philosophy
0309008 History of Science & Technology
0503015 History/Philosophy of Education
0309009 Medieval
0309010 Modern
0309011 Oral History
0309012 Renaissance

0310000 HUMANITIES, GENERAL/OTHER
0310001 Humanities Planning/Policy
0502019 Humanities/Liberal Education

0311000 JURISPRUDENCE

0312000 LANGUAGE AND/OR LITERATURE
0312001 Classical/Ancient
0312002 Classical Greek
0312003 Classical Latin
0312004 Comparative Literature
0312005 Drama
0312006 Fiction
0312007 Medieval
0312008 Modern
0312009 Non-Fiction
0312010 Poetry
0312011 Renaissance
0312012 Translation

0410000 LINGUISTICS

0313000 MEDIA ARTS
0313001 Cinema/Video
0503013 Educational Television
0313002 Journalism
0313003 Photography
0313004 Radio

0314000 MUSEUMS

0315000 MUSIC
0502026 Music Education
0309005 Music History & Appreciation
0315001 Musicology/Music Theory

0316000 PERFORMING ARTS
0316001 Dance
0316002 Dramatic/Theatre Arts
0316003 Music Composition
0316004 Music Conducting
0316005 Music, Instrumental
0316006 Music, Vocal
0316007 Opera/Musical Theatre

0317000 PHILOSOPHY
0901009 Ethics, Business
0701028 Ethics, Medical
1010007 Logic
0309007 Philosophy, History of
0503015 Philosophy/History of Education

0318000 RELIGIOUS STUDIES

0319000 RESTORATION AND PRESERVATION
0319001 Art Works/Artifacts
0319002 Manuscripts/Books/Music Scores
0319003 Structural/Architectural

0320000 VISUAL ARTS
0320001 Ceramics (Visual Arts)
0320002 Craft Arts
0320003 Decorative Arts
0320004 Drawing
0320005 Jewelry/Metal Arts
0320006 Painting
0320007 Print Making
0320008 Sculpture
0320009 Textile/Weaving Arts

0400000 BEHAVIORAL/SOCIAL SCIENCES

(See Also: ARTS/HUMANITIES/CULTURAL ACTIVITIES, and MANAGEMENT/COMMERCE)

0401000 ANTHROPOLOGY
0401001 Anthropology, Cultural/Social
0401002 Anthropology, Physical

0402000 ARCHAEOLOGY

0403000 AREA & POPULATION STUDIES/ SERVICES
[See Also: AREA STUDIES (ARTS/HUMANITIES RELATED)]
0403001 Adolescence
0403002 Blacks
0403003 Children and Youth
0403004 Community/Outreach Programs
0403005 Cross-Cultural
0113003 Developing/Underdeveloped Nations
0403006 Familial Abuse
0403007 Family
0701014 Family Health/Planning/Safety
0403008 Handicapped/Disabled
0403009 Hispanics
0403010 Illegal Aliens
0403011 Immigrants
0403012 Inner-City
0403013 Minorities and Disadvantaged
0403014 Native Americans
0403015 Refugees
0403016 Veterans
0403017 Volunteers
0403018 Women

0404000 BEHAVIORAL/SOCIAL STUDIES/SERVICES, OTHER
0404001 Addictions
0404002 Aging/Gerontology
0404003 Alcohol/Alcoholism
0404004 Child Development
0404005 Consumer Behavior
0404006 Day Care
0404007 Death and Dying
0701010 Death and Dying, Health and Physical Needs
0404008 Disasters
0404009 Drugs/Drug Abuse
0404010 Food Stamps
0404011 Halfway Programs
0404012 Hospices
0503018 Learning Motivation
0701029 Mental and Emotional Health
0412005 Political Behavior
0404013 Poverty and the Poor
0404014 Racism/Race Relations
0404015 Rape/Sexual Abuse
0404016 School Food Programs
0404017 Social Services Delivery
0404018 Sex Roles
0404019 Smoking Behavior
0404020 Suicide
0404021 Surveys
0404022 Terrorism
0404023 Violent Behavior
0404024 Work Motivation

0405000 COMMUNICATIONS
0901002 Advertising
0405001 Broadcast Media
0313002 Journalism
0405002 Print Media
0901039 Public Relations

0406000 COUNSELING/GUIDANCE
0503008 Counseling/Guidance (Educ.)
0406001 Crisis Counseling
0406002 Family/Marriage Counseling
0406003 Vocational Counseling

0407000 CRIMINOLOGY
0407001 Correctional Institutions/ Procedures
0407002 Crime Causation
0407003 Crime Control
0407004 Criminal Behavior
0407005 Criminal Justice
0801018 Judicial/Law Administration
0407006 Juvenile Delinquency
0801021 Law Enforcement
0407007 Non-Violent/White-Collar Crime
0407008 Victimization/Compensation

0408000 ECONOMICS
0408001 Agricultural Economics
0408002 Econometrics
0901015 Economic Development
0309003 Economic History
0408003 Economic Theory
0408004 Energy Economics
0408005 Fiscal Theory/Application
0408006 Health Care Economics
0408007 International Economics
0901022 International Trade and Finance
0408008 Labor Economics
0408009 Macroeconomics
0408010 Microeconomics
0408011 Political Economics
0408012 Regional Economics

0409000 GEOGRAPHY
0409001 Cartography
0409002 Geographic Quantitative Methods
0409003 Geography, Economic
1007004 Geography, Environmental
0409004 Geography, Linguistic
1005004 Geography, Physical
0409005 Geography, Political
0409006 Geography, Social
0409007 Geography, Urban

0410000 LINGUISTICS

0411000 PLANNING/POLICY STUDIES
0201007 Agricultural
1006011 Energy
0701023 Health
0310001 Humanities
0411001 International
0411002 National
0901035 Management/Commerce
0411003 Public
0411004 Regional
0307007 Regional/Urban Design
0411005 Risk Analysis
0411006 Rural
1014002 Science
1016003 Technology
0606042 Transportation Engineering
0411007 Urban

0412000 POLITICAL SCIENCE
(See Also: LAW)
0412001 Civil/Human Rights
0412002 Government Regulations
0412003 Government Studies
0412004 International Relations
0412005 Political Behavior
0408011 Political Economics
0412006 Political Theory
0404022 Terrorism

0413000 POPULATION STUDIES
0413001 Demography
0413002 Human Reproduction/Fertility
0413003 Migration
0413004 Population Biology
0413005 Population Control

0414000 PSYCHOLOGY
(See Also: EDUCATIONAL MODES/PSYCHOLOGY/THEORY)
0414001 Analytical Psychology
0414002 Applied Psychology
0414003 Behavioral Psychology
0404004 Child Development
0414004 Clinical Psychology
0414005 Cognitive Development/Processes
0414006 Developmental Psychology
0414007 Educational Psychology
0414008 Humanistic Psychology
0414009 Industrial Psychology
0701029 Mental and Emotional Health
0414010 Parapsychology
0414011 Physiological Psychology
0414012 Psychobiology
0414013 Psychometrics
0414014 Social Psychology

0415000 REHABILITATION/THERAPY
0415001 Emotional/Social
0415002 Occupational/Vocational
0415003 Physical

0416000 SOCIAL SERVICES
(See: AREA & POPULATION STUDIES/SERVICES, and BEHAVIORAL/SOCIAL STUDIES/SERVICES)
0404017 Social Services Delivery

0417000 SOCIOLOGY
0417001 Applied Sociology
0417002 Comparative Sociology
0417003 Organizational Theory and Behavior
0901032 Organizational Theory and Behavior (Mgmt./Comm.)
0417004 Social Measurement and Indicators
0417005 Social Stratification/Mobility
0417006 Sociological Theory
0502034 Sociology Education

0500000 EDUCATION

0501000 EDUCATIONAL ADMINISTRATION AND POLICY
0501001 Educational Finance
0801012 Educational Law
0501003 Equal Educational Opportunity
0501004 Politics of Education
0501005 Private & Parochial Education
0501006 Public Education
0501007 Rural Education
0501008 Community & School Relations
0501009 School Desegregation
0501010 School Organization
0501011 Transfer Students
0501012 Urban Education
0501013 Volunteers (Education)

0502000 EDUCATIONAL/INSTRUCTIONAL PROGRAMS
0502001 Agriculture Education
0502002 Alcohol Education
0502003 Art Education
0502004 Basic Skills Education
0502005 Business Education
0502006 Career Education & Planning
0502007 Consumer Education/ Information
0502008 Dance Education
0502009 Dental Health Education
0502010 Driver Education
0502011 Drug Education
0502012 Energy Education
0502013 English Education
0502014 English as a Second Language
0502015 Environmental Education
0502016 Foreign Languages Education
0502017 Health and Safety Education
0502018 Home Economics Education
0502019 Humanities/Liberal Education
0502020 Industrial Arts Education
0502021 Language Arts Education
0502022 Legal Education
0502023 Mathematics Education
0502024 Medical Education
0502025 Metric Education
0502026 Music Education
0502027 Nursing Education
0502028 Nutrition Education
0502029 Physical Education
0502030 Reading Education
0502031 Science Education
0502032 Sex Education
0502033 Social Science Education
0502034 Sociology Education
0502035 Speech/Communication Education
0502036 Teacher Education
0502037 Values Education
0502038 Vocational/Technical Education
0502039 Writing/Composition Education

0503000 EDUCATIONAL MODES/PSYCHOLOGY/ THEORY (See Also: PSYCHOLOGY)
0503001 Academic Achievement
0503002 Affective Development
0503003 Alternative Modes Education
0503004 Bilingual/Bicultural Education
0503005 Classroom Instruction
0414005 Cognitive Development/ Processes
0503006 Comparative Education
0503007 Computer-Assisted Instruction
0503008 Counseling/Guidance (Educ.)
0503009 Discipline Problems
0503010 Education, Organizational Theory and Behavior
0503011 Education and Work
0503012 Educational Evaluation/ Assessment
0414007 Educational Psychology
0503013 Educational Television
0503014 Educational Testing/ Measurement
0503015 History/Philosophy of Education
0503016 Instructional Materials and Practices
0503017 Instructional Television
0503018 Learning Motivation
0503019 Literacy
0503020 Parent Involvement
0503021 Play
0503022 Teacher Attitudes

0504000 ELEMENTARY/SECONDARY EDUCATION
0504001 Elementary Education
0504002 High School Education
0504003 Junior High School Education
0504004 Middle School Education

0505000 HIGHER EDUCATION
0505001 Adult & Continuing Education
0505002 College Students
0505003 Higher Education - Private
0505004 Higher Education - Public
0505005 Junior & Community Colleges

0506000 PRE-SCHOOL EDUCATION

0507000 SPECIAL EDUCATION
0507001 Compensatory Education
0507002 Emotionally Disturbed Education
0507003 Gifted or Talented Education
0507004 Handicapped Education
0507005 Learning Disabled Education
0507006 Remedial Education

0600000 ENGINEERING

(See Also: SCIENCE & TECHNOLOGY/MATHEMATICS/COMPUTER SCIENCE)

0601000 AERONAUTICAL AND ASTRONAUTICAL ENGINEERING
0601001 Aerodynamics
0601002 Aeroelasticity

0602000 BIOENGINEERING

0603000 BIOMEDICAL ENGINEERING

0604000 CERAMIC ENGINEERING

0605000 CHEMICAL ENGINEERING
1007005 Air Pollution
1003009 Colloid Chemistry
1003012 Organic Chemistry
1003013 Petroleum Chemistry
0605001 Process Development Engineering
0605002 Unit Operations Engineering

0606000 CIVIL ENGINEERING
1007005 Air Pollution
0606001 Architectural Engineering
0603000 Biomedical Engineering
0606002 Coastal & Ocean Engineering
0606003 Computer-Assisted Design (Civil Engineering)
0606004 Concrete Structures
0606005 Construction Engineering
0606006 Construction Management
0606007 Dams and Earth Structures
0606008 Earthquake Engineering
0606009 Engineering Geology
0606010 Environmental Engineering
0606011 Fluid Mechanics (Civil Engi.)
0606012 Geotechnical Engineering
0606013 Hydraulic Engineering
0606014 Landslides
0606015 Materials Engineering
0606016 Materials, Engineering Properties
0606017 Materials Recovery
0606018 Materials Science (Engineering)
0606019 Materials Testing
0606020 Numerical Models
0606021 Nuclear Materials Transport
0606022 Nuclear/Radioactive Waste Disposal
0606023 Pavements
0606024 Rock Mechanics
0606025 Sanitary Engineering
0606026 Sanitary Engineering, Environmental Impacts
0606027 Soil Mechanics & Foundations
0606028 Soil/Structure Interaction
0606029 Solid Waste Disposal
0606030 Steel Structures
0606031 Structural Analysis
0606032 Structural Design
0606033 Structural Dynamics
0606034 Structural Engineering
0606035 Structure Reliability
0606036 Traffic Engineering
0606037 Transportation Engineering
0606038 Transportation Engineering Design
0606039 Transportation Engineering Economics
0606040 Transportation Engineering, Environmental Impacts
0606041 Transportation Engineering, Intermodal Studies
0606042 Transportation Engineering, Planning/Policy Studies
0606043 Transportation Surveys
0606044 Tunnels
0606045 Waste Water Treatment
1007008 Water Pollution
0606046 Water Resources (Engineering)
1007010 Water Resources, Environmental Impacts
0606047 Water Resources Management/ Planning
0606048 Water Supply
0606049 Water Treatment
0606050 Waterways and Harbors

0607000 ELECTRONICS AND ELECTRICAL ENGINEERING
0607001 Applied Electronics
0603000 Biomedical Engineering
0607002 Communication Systems
0607003 Computer Design
0607004 Control Systems (Electronics & Electrical Engineering)
0607005 Electric Power Conversion
0607006 Electric Power Generation
0607007 Electric Power Transmission
0607008 Electromagnetic Propagation
0607009 Lasers (Engineering)
1013014 Lasers and Masers (Physical Sciences)
0607010 Microelectronics
0607011 Microwave Theory
0607012 Navigation & Guidance Systems
0607013 Optical Communications
0607014 Pattern & Character Recognition (Engineering)
0607015 Plasma Electronics
0607016 Radar
0607017 Range and Tracking Systems
0607018 Remote Sensing (Electronics & Electrical Engineering)
0607019 Robotics (Electronics & Electrical Engineering)
0607020 Solid State Electronics
0607021 Surveillance Systems
0607022 Systems Engineering
1016005 Telecommunications
0607023 Telemetry
0607024 Ultrasonic Technology

0608000 INDUSTRIAL ENGINEERING
0608001 Engineering Administration/ Management
0608002 Engineering Innovation Processes
0608003 Engineering, Management Information Systems
0608004 Engineering, Personnel Management
0608005 Engineering, Project Management
0608006 Engineering Statistics
0608007 Ergonomics
0608008 Human Factors Engineering
0608009 Industrial Relations
0608010 Industrial Systems Engineering
0608011 Manufacturing Processes (Industrial Engineering)
0608012 Operations Research (Engineering)
0608013 Production Engineering
0608014 Quality Control (Engineering)
0608015 Reliability (Engineering)
0608016 Value Engineering

0609000 MECHANICAL ENGINEERING
1007005 Air Pollution
0609001 Automation
0609002 Automotive Engineering
0609003 Combustion
0609004 Computer-Assisted Design (Mechanical Engineering)
0609005 Continuum Mechanics
0609006 Control Systems (Mechanical Engineering)
0609007 Elasticity
0609008 Electromechanical Systems
0609009 Emission Control
1006001 Energy Audits
1006004 Energy Conservation/ Consumption
1006005 Energy Conversion
1006011 Energy Planning/Policy
1006012 Energy, Renewable Resources
1006013 Energy, Solar
1006014 Energy Storage
1006015 Energy Systems
1006016 Energy Technology
1006018 Energy, Tidal
1006020 Energy, Wind
0609010 Engineering Design
0609011 Engines
0609012 Environmental Design
0609013 Fatigue (Engineering)
0609014 Fluid Mechanics (Mechanical Engineering)
0609015 Fracture
0609016 Gas Turbines
0609017 Heat Transfer
0609018 Heating, Ventilation and Air Conditioning
0609019 Industrial Design
0609020 Machine Design
0609021 Magnetohydrodynamics
0609022 Manufacturing (Mechanical Engineering)
0609023 Marine Engineering
0609024 Mechanical Systems
0609025 Mechanics
0609026 Medical Devices Engineering
1006010 Nuclear Energy
0609027 Nuclear Engineering
0609028 Nuclear Technology
(See Also: NUCLEAR SCIENCES)
0609029 Plasticity
0609030 Propulsion
0609031 Robotics (Mechanical Engineering)
0609032 Solar Heating
0609033 Solid Mechanics
0609034 Thermodynamics Engineering
0609035 Thermosciences Engineering
0609036 Turbomachinery

0610000 MINING ENGINEERING
0610001 Materials Processing Engineering
1011001 Ocean Mining

0611000 PETROLEUM ENGINEERING

HEALTH AND SAFETY

0701001 Adolescent Health
0701002 Aerospace Biomedicine
0701003 Aging/Gerontology (Health and Safety)
0404003 Alcohol/Alcoholism
0502002 Alcohol Education
0701004 Audiology
0602000 Bioengineering
0603000 Biomedical Engineering
1002012 Biometry
0701005 Birth/Congenital Defects
0701006 Chiropractic
0701007 Communication Disorders
0701008 Communication Disorders, Hearing
0701009 Communication Disorders, Speech
(See Also: Speech Pathology)
0701010 Death and Dying, Health and Physical Needs
0502009 Dental Health Education
0701011 Dental Health and Hygiene
0701012 Dentistry
0404008 Disasters
0502011 Drug Education
0404009 Drugs/Drug Abuse
0701013 Epidemiology
0701014 Family Health/Planning/Safety
0701015 Health, Allied Fields
0701016 Health Care
0701017 Health Care Administration
0408006 Health Care Economics
0701018 Health, Environmental
0701019 Health Facilities Studies
0701020 Health Insurance
0701021 Health Maintenance Organizations
0701022 Health Manpower/Professions
0701023 Health Planning/Policy
0701024 Health, Radiation Effects
0701025 Health Records
0502017 Health and Safety Education
0701026 Health Services Delivery
0701027 Maternal and Child Health
0701028 Medical Ethics
0701029 Mental and Emotional Health
0701030 Midwifery
0701031 Nurse Practitioner
0701032 Nursing
0502027 Nursing Education
0701033 Nursing Homes
0202022 Nutrition/Dietetics
0502028 Nutrition Education
0701034 Occupational Safety & Health
0701035 Optometry
0701036 Pain
0701037 Patient Care and Education
0701038 Pharmacology
0701039 Pharmacy
0701040 Poison Control
0701041 Preventive Dentistry
0701042 Preventive Medicine
0701043 Public Health
0415002 Rehabilitation/Therapy, Occupational/Vocational
0415003 Rehabilitation/Therapy, Physical
0411005 Risk Analysis
0701044 Safety
0502032 Sex Education
0701045 Speech Pathology
(See Also: Communication Disorders)
0701046 Stress
0701047 Traffic Safety
0701048 Trauma

0800000 LAW

0801001	Administrative Law
0801002	Agricultural Law
0801003	Banking Law
0801004	Business Law
0801005	Civil Law
0801006	Communications Law
0801007	Constitutional Law
0801008	Consumer Law
0801009	Corporate Law
0801010	Criminal Law
0801011	Domestic Relations (Law)
0801012	Educational Law
0801013	Environmental Law
0801014	Forensic Law
0801015	Housing Law
0801016	Immigration Law
0801017	International and Comparative Law
0801018	Judicial/Law Administration
0311000	Jurisprudence
0801019	Juvenile Law
0801020	Labor Law
0801021	Law Enforcement
0309006	Law History
0502022	Legal Education
0801022	Maritime Law
0801023	Military Law
0801024	Mining Law
0801025	Patents, Copyrights, Trademarks

0900000 MANAGEMENT/COMMERCE

(See Also: BEHAVIORAL/SOCIAL SCIENCES)

0901001 Accounting
0901002 Advertising
0408001 Agricultural Economics
0901003 Auditing
0901004 Automation, Office
0901005 Banking
0901006 Bankruptcy
0901007 Business Administration
0901008 Business Communications
0502005 Business Education
0901009 Business Ethics
0801004 Business Law
0901010 Commerce
0901011 Computer Technology
0404005 Consumer Behavior
0502007 Consumer Education/Information
0901012 Consumer Services
0901013 Credit
0901014 Currency
0901015 Economic Development
0309003 Economic History
0408003 Economic Theory
0408000 Economics
0901016 Efficiency Studies
0901017 Employee Benefits
0901018 Finance
0901019 Hotel & Restaurant Management
0901020 Industry
0901021 Insurance
0408007 International Economics
0901022 International Trade & Finance
0901023 Investments and Securities
0408008 Labor Economics
0901024 Leadership
0408009 Macroeconomics
0901025 Management Information Systems
0901026 Management Sciences
0901027 Manpower Research
0901028 Marketing
0901029 Marketing Research
0408010 Microeconomics
0201041 Migrant Labor
0901030 Minority/Woman-Owned Business
0901031 Operations Research
0901032 Organizational Theory and Behavior (Mgmt./Comm.)
0901033 Parks & Recreation Management
0901034 Personnel
0901035 Planning/Policy Studies, Management/Commerce
(See Also: PLANNING/POLICY STUDIES)
0901036 Price Change
0901037 Public Administration
0411003 Public Planning/Policy
0901039 Public Relations
0901040 Purchasing/Procurement
0901041 Quality/Product Control
0608014 Quality Control (Engineering)
0901042 Real Estate
0901043 Small Business
0901044 Statistics, Business
0901045 Taxes and Taxation
0901046 Utilities
0901047 Word/Text Processing (Management/Commerce)
0404024 Work Motivation

1000000 SCIENCE & TECHNOLOGY/MATHEMATICS/COMPUTER SCIENCE

(See Also: ENGINEERING)

1001000 ATMOSPHERIC SCIENCES
1001001 Air Pollution (Atmospheric Sciences)
1001002 Atmosphere: Composition, Disturbance, Physics
1001003 Climatology
1001004 Clouds
1001005 Meteorology
1001006 Precipitation
1001007 Probes and Satellites, Atmospheric
1001008 Remote Sensing (Atmospheric Sciences)
1001009 Weather Modification

1002000 BIOLOGICAL SCIENCES (See Also: AGRICULTURE)
1002001 Anatomy
1002002 Animal Breeding and Facilities, Scientific (See Also: Animal listings under AGRI.)
1002003 Bacteriology
1003002 Biochemistry
1008005 Biological Oceanography
1002004 Biology, Cellular
1002005 Biology, Conservation
1002006 Biology, Developmental
1007001 Biology, Environmental
1002007 Biology, Metabolic
1002008 Biology, Molecular
1002009 Biology, Radiation
1002010 Biology, Regulatory
1002011 Biology, Systematic
1002012 Biometry
1013004 Biophysics
1002013 Botany
1002014 Cancer/Carcinogenesis
1002015 Cytology
1002016 Ecology
1002017 Embryology
1002018 Entomology
1002019 Genetics
1002020 Herpetology
1002021 Histology
1002022 Ichthyology
1002023 Immunology
1002024 Instrumentation, Biological
1002025 Limnology
1002026 Mammalogy
1002027 Microbiology
0201042 Migratory Animals and Birds
1002028 Mutagenics
1002029 Mycology
1002030 Neuroscience
1002031 Ornithology
1002032 Parasitology
1002033 Photosynthesis
1002034 Physiological Processes
1002035 Plant Breeding
1002036 Plant Diseases/Pathology
1002037 Plant Genetics
1002038 Plant Nutrition
1002039 Plant Physiology
1002040 Plant Sciences
1002041 Plant Virology
0201047 Pollen and Pollination
1002042 Reproduction
1002043 Sociobiology
1007009 Toxicology
1002044 Vertebrate Physiology
1002045 Viral Studies
1002046 Vision
1002047 Zoology

1003000 CHEMICAL SCIENCES
1003001 Atomic & Molecular Structure
1003002 Biochemistry
1003003 Chemical Dynamics
1003004 Chemical Effects (Chemical Sciences)
1013020 Chemical Physics
1003005 Chemical Properties
1003006 Chemical Synthesis
1003007 Chemistry
1003008 Chemistry, Analytical
1003009 Chemistry, Colloid
1007002 Chemistry, Environmental
1003010 Chemistry, Inorganic
1003011 Chemistry, Nuclear
1003012 Chemistry, Organic
1003013 Chemistry, Petroleum
1003014 Chemistry, Physical
1005002 Geochemistry

1004000 COMPUTER SCIENCE
1004001 Computer Applications
1004002 Computer-Assisted Design
0503007 Computer-Assisted Instruction
1004003 Computer Engineering
1004004 Computer Graphics
1004005 Computer Modeling
1004006 Computer Programming Systems/Languages
1004007 Computer Software
1004008 Computer Storage & Retrieval
1004009 Computer Systems Analysis
1004010 Computer Theory
1004011 Computers & Systems, Digital
1004012 Control Applications (Computer Sciences)
1004013 Control Theory (Computer Sciences)
1004014 Cryptography
1004015 Cybernetics
1004016 Data Analysis
1004017 Information Science/Systems
1004018 Information Theory
1004019 Instrumentation, Medical (Computer Sciences)
1004020 Library Automation
1004021 Machine Translation
1004022 Pattern Recognition (Computer Sciences)
1004023 Publishing, Electronic
1004024 Word/Text Processing (Computer Sciences)

1005000 EARTH SCIENCES
1005001 Air-Sea Boundary Interactions
1005002 Geochemistry
1005003 Geodesy
1005004 Geography, Physical
(See Also: GEOGRAPHY list under BEH./SOC. SCIENCES)
1005005 Geology
1005006 Geology, Coastal
1005007 Geology, Economic
1005008 Geology, Marine
1005009 Geology, Physical
1005010 Geology, Structural
1005011 Geomorphology
1013009 Geophysics
1005012 Glaciology
1005013 Hydrology
1005014 Instrumentation, Earth Sciences
1005015 Mineral Resources
1005016 Mineralogy
1008004 Oceanography
1008006 Oceanography, Physical
1005017 Paleontology
1005018 Petroleum Science
1005019 Petrology
1005020 Remote Sensing, Earth Sciences
1005021 Sedimentology
1005022 Seismology
1005023 Stratigraphy
1005024 Tectonics

1006000 ENERGY
(See Also: NUCLEAR SCIENCES)
1006001 Energy Audits
1006002 Energy, Biomass
1006003 Energy, Chemical
1006004 Energy Conservation/ Consumption
1006005 Energy Conversion
0408004 Energy Economics
0502012 Energy Education
1006006 Energy, Electrical
1006007 Energy, Fusion
1006008 Energy, Geothermal
1006009 Energy, Hydroelectric
1006010 Energy, Nuclear
1006011 Energy Planning/Policy
1006012 Energy, Renewable Resources
1006013 Energy, Solar
1006014 Energy Storage
1006015 Energy Systems
1006016 Energy Technology
1006017 Energy, Thermal
1006018 Energy, Tidal
1006019 Energy Transmission
1006020 Energy, Wind
1006021 Fossil Fuels
1006022 Fuel Cells
0607009 Lasers (Engineering)
1013014 Lasers and Masers (Physical Sciences)
1006023 Ocean Thermal Gradients
1006024 Thermosciences

1007000 ENVIRONMENTAL STUDIES
1002016 Ecology
1007001 Environmental Biology
1007002 Environmental Chemistry
0609012 Environmental Design
0502015 Environmental Education
1007003 Environmental Effects
1009004 Environmental Effects (Materials Sciences)
1007004 Environmental Geography
0701018 Environmental Health
0801013 Environmental Law
0606021 Nuclear Materials Transport
0606022 Nuclear/Radioactive Waste Disposal
1012003 Nuclear/Radioactive Wastes
1012004 Nuclear Safety
1007005 Pollution, Air
1007006 Pollution, Land
1007007 Pollution, Noise
1007008 Pollution, Water
0411005 Risk Analysis
0606029 Solid Waste Disposal
1007009 Toxicology
0606045 Waste Water Treatment
0201061 Water Resources (Agriculture)
0606046 Water Resources (Engineering)
1007010 Water Resources, Environmental Impacts
0606047 Water Resources Management/Planning

1008000 MARINE SCIENCES
0606002 Coastal & Ocean Engineering
1008001 Coastal Processes
1008002 Estuarine Sciences
1011001 Ocean Mining
1008003 Oceanographic Facilities
1008004 Oceanography
1008005 Oceanography, Biological
1008006 Oceanography, Physical
1008007 Sea Water Properties

1009000 MATERIALS SCIENCES
1009001 Ceramics/Refractories
1009002 Corrosion
1009003 Crystallography
1009004 Environmental Effects (Materials Sciences)
1009005 Fatigue/Fracture
1009006 Materials, Amorphous
1009007 Materials, Composite
1009008 Materials, Polymeric
1009009 Materials Processing and Finishing
1009010 Mechanical Properties (Materials Sciences)
1009011 Metallurgy
1009012 Metallurgy, Extractive and Process
1009013 Polymer Science
1009014 Superconductivity (Materials Sciences)

1010000 MATHEMATICS
1010001 Algebra
1010002 Analysis & Functional Analysis
1010003 Applied Mathematics
1010004 Calculus
1010005 Finite Mathematics
1010006 Geometry
1010007 Logic
1010008 Mathematical Foundations
0502023 Mathematics Education
0502025 Metric Education
1010009 Number Theory
1010010 Numerical Analysis
1010011 Operations Research (Mathematics)
1010012 Probability
1010013 Statistics
1010014 Topology
1010015 Trigonometry

1011000 MINING
(See Also: MINING ENGINEERING)
1011001 Ocean Mining

1012000 NUCLEAR SCIENCES
(See Also: ENERGY, and ENVIRONMENTAL STUDIES)
1003011 Nuclear Chemistry
1006010 Nuclear Energy
0609027 Nuclear Engineering
1012001 Nuclear Fission
1012002 Nuclear Medicine
1013023 Nuclear Physics
1012003 Nuclear/Radioactive Wastes
1012004 Nuclear Safety
[Also: Disasters (0404008)]
0609028 Nuclear Technology

1013000 PHYSICAL SCIENCES
1013001 Acoustics
1013002 Astronomy
1013003 Astrophysics
1013004 Biophysics
1013005 Celestial Mechanics
1013006 Condensed Matter
1013007 Dielectric Properties
1013008 Galaxies, Stellar Systems
1013009 Geophysics
1013010 Gravitation
1013011 High Pressure Sciences
1013012 Instrumentation & Techniques (Physical Sciences)
1013013 Interstellar Studies
0607009 Lasers (Engineering)
1013014 Lasers and Masers (Physical Sciences)
1013015 Low Temperature Sciences
1015003 Lunar Sciences
1013016 Magnetics
1013017 Optics
1003014 Physical Chemistry
1013018 Physics
1013019 Physics, Atomic
1013020 Physics, Chemical
1013021 Physics, Elementary Particle
1013022 Physics, High Energy
1013023 Physics, Nuclear
1013024 Physics, Particle
1013025 Physics, Plasma
1013026 Physics, Radiation
1013027 Physics, Solar
1013028 Physics, Solid State
1013029 Physics, Theoretical
1013030 Planetary Studies
1013031 Radiosources, Infrared, X-Ray, Gamma Ray
1013032 Relativity
1013033 Solar Studies
1013034 Spectroscopy
1013035 Superconductivity (Physical Sciences)
1013036 Synchrotron Radiation
1013037 Thermodynamics

1014000 SCIENCE, GENERAL/OTHER
0309008 History of Science and Technology
1014001 Instrumentation, Scientific
0502031 Science Education
1014002 Science Planning/Policy

1015000 SPACE SCIENCES
1015001 Aeronautics
1015002 Astronautics
1015003 Lunar Sciences
1015004 Probes and Satellites, Space

1016000 TECHNOLOGY
1016001 Appropriate Technology
1016002 Technology Assessment
1016003 Technology Planning/Policy
1016004 Technology Transfer
1016005 Telecommunications
(See Also: ELECTRONICS & ELECTRICAL ENGINEERING)

1017000 TEXTILES

1100000 OTHER

1101000 FIRE/FLAMMABILITY STUDIES

1102000 HOUSING

1103000 LIBRARY SCIENCE

1104000 MILITARY SCIENCES/MILITARY HISTORY

1105000 PEACE/AMNESTY

1106000 RECREATION AND LEISURE STUDIES

1107000 UNIVERSITY/INDUSTRY COOPERATIVE ACTIVITIES

KEYWORDS--ALPHABETICAL LIST

0503001	Academic Achievement
0901001	Accounting
1013001	Acoustics
0404001	Addictions
0403001	Adolescence
0701001	Adolescent Health
0901002	Advertising
0601001	Aerodynamics
0601002	Aeroelasticity
0601000	AERONAUTICAL & ASTRONAUTICAL ENGINEERING
1015001	Aeronautics
0701002	Aerospace Biomedicine
0301000	AESTHETICS
0503002	Affective Development
0112001	Afghanistan
0101000	AFRICA
0101001	Africa, Central
0101002	Africa, Eastern
0101003	Africa, Northern
0101004	Africa, Southern
0101005	Africa, Western
0404002	Aging/Gerontology
0701003	Aging/Gerontology (Health and Safety)
0201001	Agricultural Chemical Application
0201002	Agricultural Collectives/ Cooperatives
0201003	Agricultural Commodities
0408001	Agricultural Economics
0201004	Agricultural Engineering
0201005	Agricultural Finance
0801002	Agricultural Law
0201006	Agricultural Management
0201007	Agricultural Planning/Policy
0201000	AGRICULTURE
0502001	Agriculture Education
0200000	AGRICULTURE/FOOD SCIENCES/ FOODS
0201008	Agronomy
1007005	Air Pollution
1001001	Air Pollution (Atmospheric Sciences)
1005001	Air-Sea Boundary Interactions
0114001	Alaska
0112002	Albania
0502002	Alcohol Education
0404003	Alcohol/Alcoholism
1010001	Algebra
0112003	Algeria
1010002	Analysis & Functional Analysis
1002001	Anatomy
0112004	Angola
0201009	Animal Behavior/Ethology
0201010	Animal Breeding
1002002	Animal Breeding & Facilities, Scientific
0201011	Animal Care
0201012	Animal Communication
0201013	Animal Diseases/Pathology
0201014	Animal Drugs
0201015	Animal Feeds/Nutrition
0201016	Animal Genetics
0201017	Animal Housing
0201018	Animal Physiology
0201019	Animal Science
0201020	Animal Waste
0110001	Antarctic Ocean
0102000	ANTARCTICA
0401000	ANTHROPOLOGY
0401001	Anthropology, Cultural/Social
0401002	Anthropology, Physical
0109001	Antilles
0113001	Arab States
0103001	Arabian Peninsula
0402000	ARCHAEOLOGY
0606001	Architectural Engineering
0307001	Architecture
0111001	Arctic
0110002	Arctic Ocean
0403000	AREA AND POPULATION STUDIES/SERVICES
0302000	AREA STUDIES (ARTS/ HUMANITIES RELATED)
0112005	Argentina
0303001	Art Administration
0305001	Art Criticism
0502003	Art Education
0309004	Art History and Appreciation
0319001	Art Works/Artifacts
0303000	ARTS, GENERAL/OTHER
0300000	ARTS/HUMANITIES/CULTURAL ACTIVITIES
0103000	ASIA
0103002	Asia, Central
0103003	Asia, East (Far East)
0103005	Asia, Northern
0103006	Asia, Southeast
0103007	Asia, Southern
0103008	Asia, Western
1015002	Astronautics
1013002	Astronomy
1013003	Astrophysics
0110003	Atlantic Ocean
1001002	Atmosphere: Composition, Disturbance, Physics
1001000	ATMOSPHERIC SCIENCES
1003001	Atomic & Molecular Structure
0701004	Audiology
0901003	Auditing
0112006	Australia
0112007	Austria
0609001	Automation
0901004	Automation, Office
0609002	Automotive Engineering
0109002	Azores
1002003	Bacteriology
0112008	Bahamas
0112009	Bahrain
0203001	Bakery Products
0110004	Baltic Sea
0112010	Bangladesh
0901005	Banking
0901006	Bankruptcy
0400000	BEHAVIORAL/SOCIAL SCIENCES
0404000	BEHAVIORAL/SOCIAL STUDIES/SERVICES, OTHER
0112011	Belgium
0112012	Belize
0112013	Benin
0110005	Bering Sea
0109003	Bermuda
0203002	Beverages, Alcoholic
0203003	Beverages, Non-Alcoholic
0112014	Bhutan
1003002	Biochemistry
0602000	BIOENGINEERING
1008005	Biological Oceanography

1002000	BIOLOGICAL SCIENCES
1002004	Biology, Cellular
1002005	Biology, Conservation
1002006	Biology, Developmental
1007001	Biology, Environmental
1002007	Biology, Metabolic
1002008	Biology, Molecular
1002009	Biology, Radiation
1002010	Biology, Regulatory
1002011	Biology, Systematic
1006002	Biomass Energy
0603000	BIOMEDICAL ENGINEERING
1002012	Biometry
1013004	Biophysics
0701005	Birth/Congenital Defects
0110006	Black Sea
0403002	Blacks
0112015	Bolivia
1002013	Botany
0112016	Botswana
0112017	Brazil
0113002	British Commonwealth of Nations
0104001	British Isles
0405001	Broadcast Media
0112018	Bulgaria
0112019	Burma
0112020	Burundi
0901007	Business Administration
0901008	Business Communications
0502005	Business Education
0901009	Business Ethics
0801004	Business Law
0203004	Cacao Products
1010004	Calculus
0112021	Cameroon
0112022	Canada
0109004	Canary Islands
1002014	Cancer/Carcinogenesis
0203005	Candy
0112023	Cape Verde
0110007	Caribbean Sea
0409001	Cartography
1013005	Celestial Mechanics
0112024	Central African Republic
0107001	Central America
0604000	CERAMIC ENGINEERING
0320001	Ceramics (Visual Arts)
1009001	Ceramics/Refractories
0203006	Cereals
0112025	Chad
1003003	Chemical Dynamics
1003004	Chemical Effects (Chemical Sciences)
0605000	CHEMICAL ENGINEERING
1013020	Chemical Physics
1003005	Chemical Properties
1003000	CHEMICAL SCIENCES
1003006	Chemical Synthesis
1003007	Chemistry
1003008	Chemistry, Analytical
1003009	Chemistry, Colloid
1007002	Chemistry, Environmental
1003010	Chemistry, Inorganic
1003011	Chemistry, Nuclear
1003012	Chemistry, Organic
1003013	Chemistry, Petroleum
1003014	Chemistry, Physical
0404004	Child Development
0403003	Children and Youth
0112026	Chile
0112027	China (People's Republic)
0110008	China Seas
0701006	Chiropractic
0313001	Cinema/Video
0606000	CIVIL ENGINEERING
0412001	Civil/Human Rights
0503005	Classroom Instruction
1001003	Climatology
1001004	Clouds
0606002	Coastal and Ocean Engineering
1008001	Coastal Processes
0203007	Coffee
0414005	Cognitive Development/ Processes
1003009	Colloid Chemistry
0112028	Colombia
0203008	Color Additives
0609003	Combustion
0901010	Commerce
0201021	Commodity Futures
0701007	Communication Disorders
0701008	Communication Disorders, Hearing
0701009	Communication Disorders, Speech (See Also: Speech Pathology)
0607002	Communication Systems
0405000	COMMUNICATIONS
0501008	Community & School Relations
0403004	Community/Outreach Programs
0112029	Comoros
1004001	Computer Applications
0607003	Computer Design
1004003	Computer Engineering
1004004	Computer Graphics
1004005	Computer Modeling
1004006	Computer Programming Systems/Languages
1004000	COMPUTER SCIENCE
1004007	Computer Software
1004008	Computer Storage & Retrieval
1004009	Computer Systems Analysis
0901011	Computer Technology
1004010	Computer Theory
1004002	Computer-Assisted Design
0606003	Computer-Assisted Design (Civil Engineering)
0609004	Computer-Assisted Design (Mechanical Engineering)
0503007	Computer-Assisted Instruction
1004011	Computers & Systems, Digital
0606004	Concrete Structures
1013006	Condensed Matter
0112030	Congo
0201022	Conservation (Agriculture)
0606005	Construction Engineering
0606006	Construction Management
0404005	Consumer Behavior
0502007	Consumer Education/Information
0901012	Consumer Services
0609005	Continuum Mechanics
1004012	Control Applications (Computer Sciences)
0607004	Control Systems (Electronics & Electrical Engineering)
0609006	Control Systems (Mechanical Engineering)
1004013	Control Theory (Computer Sciences)
0407001	Correctional Institutions/ Procedures
1009002	Corrosion
0112031	Costa Rica

0203009 Cottonseeds
0406000 COUNSELING/GUIDANCE
0503008 Counseling/Guidance (Education)
0406001 Counseling, Crisis
0406002 Counseling, Family/Marriage
0406003 Counseling, Vocational
0320002 Craft Arts
0304000 CREATIVE WRITING
0304001 Creative Writing, Drama
0304002 Creative Writing, Fiction
0304003 Creative Writing, Non-Fiction
0304004 Creative Writing, Poetry
0304005 Creative Writing, Translation
0901013 Credit
0407002 Crime Causation
0407003 Crime Control
0407007 Crime, Non-Violent/ White-Collar
0407004 Criminal Behavior
0407005 Criminal Justice
0407000 CRIMINOLOGY
0406001 Crisis Counseling
0305000 CRITICISM
0201023 Crop Insurance
0201024 Crop Science
0403005 Cross-Cultural
1004014 Cryptography
1009003 Crystallography
0112032 Cuba
0306000 CULTURAL ACTIVITIES
0901014 Currency
1004015 Cybernetics
0112033 Cyprus
1002015 Cytology
0112034 Czechoslovakia
0203010 Dairy Products
0201025 Dairy Science
0606007 Dams and Earth Structures
0316001 Dance
1004016 Data Analysis
0404006 Day Care
0404007 Death and Dying
0701010 Death and Dying, Health and Physical Needs
0320003 Decorative Arts
0413001 Demography
0112035 Denmark
0701011 Dental Health and Hygiene
0502009 Dental Health Education
0701012 Dentistry
0701041 Dentistry, Preventive
0307000 DESIGN ARTS
0113003 Developing/Underdeveloped Nations
1013007 Dielectric Properties
0203011 Dietary Foods
0404008 Disasters
0503009 Discipline Problems
0112036 Djibouti
0112037 Dominica
0112038 Dominican Republic
0201026 Drainage
0316002 Dramatic/Theatre Arts
0320004 Drawing
0502011 Drug Education
0404009 Drugs/Drug Abuse
1005000 EARTH SCIENCES
0606008 Earthquake Engineering
1002016 Ecology
0408002 Econometrics
0901015 Economic Development
0309003 Economic History
0408003 Economic Theory
0408000 ECONOMICS
0408001 Economics, Agricultural
0408004 Economics, Energy
0408006 Economics, Health Care
0408007 Economics, International
0408008 Economics, Labor
0408011 Economics, Political
0408012 Economics, Regional
0112039 Ecuador
0500000 EDUCATION
0502006 Education & Planning, Career
0503011 Education and Work
0505001 Education, Adult & Continuing
0502001 Education, Agriculture
0502002 Education, Alcohol
0503003 Education, Alternative Modes
0502003 Education, Art
0502004 Education, Basic Skills
0503004 Education, Bilingual/ Bicultural
0502005 Education, Business
0505002 Education, College Students
0503006 Education, Comparative
0507001 Education, Compensatory
0502008 Education, Dance
0502009 Education, Dental Health
0502010 Education, Driver
0502011 Education, Drug
0504001 Education, Elementary
0504000 EDUCATION, ELEMENTARY/ SECONDARY
0507002 Education, Emotionally Disturbed
0502012 Education, Energy
0502013 Education, English
0502015 Education, Environmental
0501003 Education, Equal Opportunity
0502016 Education, Foreign Languages
0507003 Education, Gifted or Talented
0507004 Education, Handicapped
0502017 Education, Health and Safety
0504002 Education, High School
0505000 EDUCATION, HIGHER
0505003 Education, Higher - Private
0505004 Education, Higher - Public
0503015 Education, History/ Philosophy of
0502018 Education, Home Economics
0502019 Education, Humanities/Liberal
0502020 Education, Industrial Arts
0505005 Education, Junior and Community Colleges
0504003 Education, Junior High School
0502021 Education, Language Arts
0507005 Education, Learning Disabled
0502022 Education, Legal
0502023 Education, Mathematics
0502024 Education, Medical
0502025 Education, Metric
0504004 Education, Middle School
0502026 Education, Music
0502027 Education, Nursing
0502028 Education, Nutrition
0503010 Education, Organizational Theory and Behavior
0502029 Education, Physical
0502029 Education, Physical
0501004 Education, Politics of
0506000 EDUCATION, PRE-SCHOOL
0501005 Education, Private and Parochial
0501006 Education, Public
0502030 Education, Reading
0507006 Education, Remedial

0501007	Education, Rural
0502031	Education, Science
0502032	Education, Sex
0502033	Education, Social Science
0502034	Education, Sociology
0507000	EDUCATION, SPECIAL
0502035	Education, Speech and Communication
0502036	Education, Teacher
0501011	Education, Transfer Students
0501012	Education, Urban
0502037	Education, Values
0502038	Education, Vocational/ Technical
0501013	Education, Volunteers
0502039	Education, Writing/ Composition
0502007	Education/Information, Consumer
0501000	EDUCATIONAL ADMINISTRATION AND POLICY
0503012	Educational Evaluation/ Assessment
0501001	Educational Finance
0801012	Educational Law
0503000	EDUCATIONAL MODES/PSYCHOLOGY/ THEORY
0414007	Educational Psychology
0503013	Educational Television
0503014	Educational Testing/ Measurement
0502000	EDUCATIONAL/INSTRUCTIONAL PROGRAMS
0901016	Efficiency Studies
0112040	Egypt (United Arab Republic)
0112041	El Salvador
0609007	Elasticity
0607005	Electric Power Conversion
0607006	Electric Power Generation
0607007	Electric Power Transmission
0607008	Electromagnetic Propagation
0609008	Electromechanical Systems
0607000	ELECTRONICS AND ELECTRICAL ENGINEERING
0607001	Electronics, Applied
0607015	Electronics, Plasma
0607020	Electronics, Solid State
1002017	Embryology
0609009	Emission Control
0901017	Employee Benefits
1006000	ENERGY
1006001	Energy Audits
1006004	Energy Conservation/ Consumption
1006005	Energy Conversion
0408004	Energy Economics
0502012	Energy Education
1006011	Energy Planning/Policy
1006014	Energy Storage
1006015	Energy Systems
1006016	Energy Technology
1006019	Energy Transmission
1006002	Energy, Biomass
1006003	Energy, Chemical
1006006	Energy, Electrical
1006007	Energy, Fusion
1006008	Energy, Geothermal
1006009	Energy, Hydroelectric
1006010	Energy, Nuclear
1006012	Energy, Renewable Resources
1006013	Energy, Solar
1006017	Energy, Thermal
1006018	Energy, Tidal
1006020	Energy, Wind
0600000	ENGINEERING
0608001	Engineering Administration/ Management
0609010	Engineering Design
0606009	Engineering Geology
0608002	Engineering Innovation Processes
0608006	Engineering Statistics
0608003	Engineering, Management Information Systems
0608004	Engineering, Personnel Management
0608005	Engineering, Project Management
0609011	Engines
0502014	English as a Second Language
1002018	Entomology
1007001	Environmental Biology
1007002	Environmental Chemistry
0609012	Environmental Design
0307002	Environmental Design/ Technology
0502015	Environmental Education
1007003	Environmental Effects
1009004	Environmental Effects (Materials Sciences)
0606010	Environmental Engineering
1007004	Environmental Geography
0701018	Environmental Health
0801013	Environmental Law
1007000	ENVIRONMENTAL STUDIES
0701013	Epidemiology
0608007	Ergonomics
1008002	Estuarine Sciences
0901009	Ethics, Business
0701028	Ethics, Medical
0112042	Ethiopia
0104000	EUROPE
0104002	Europe, Eastern
0104003	Europe, Northern
0104005	Europe, Southern
0104006	Europe, Western
0113004	European Common Market
0109005	Falkland Islands
0403006	Familial Abuse
0403007	Family
0701014	Family Health/Planning/ Safety
0406002	Family/Marriage Counseling
0201028	Farm and Ranch Management
0201027	Farm Machinery
0307003	Fashion/Textiles Design
0609013	Fatigue (Engineering)
1009005	Fatigue/Fracture
0203012	Feed Grains
0201029	Fertilizers
0112043	Fiji
0901018	Finance
0112044	Finland
1101000	FIRE/FLAMMABILITY STUDIES
0408005	Fiscal Theory/Application
0201030	Fish and Fisheries
0606011	Fluid Mechanics (Civil Engineering)
0609014	Fluid Mechanics (Mechanical Engineering)
0308001	Folk/Ethnic Arts
0308000	FOLK/ETHNIC STUDIES
0308002	Folklore and Mythology

0202001	Food Additives
0202002	Food Analysis
0202019	Food and Trade Policy
0202003	Food Chemistry
0202004	Food Consumption
0202005	Food Distribution
0202006	Food Drying
0202007	Food Engineering
0202008	Food Labeling
0202009	Food Management
0202010	Food Manufacturing
0202011	Food Marketing
0202012	Food Practices
0202013	Food Preparation
0202014	Food Preservation
0202015	Food Processing
0202016	Food Safety
0202000	FOOD SCIENCES
0404010	Food Stamps
0202017	Food Storage
0202018	Food Technology
0203000	FOODS
0202020	Foods, Frozen
0201031	Forest Economics
0201032	Forestry and Woodlands
1006021	Fossil Fuels
0609015	Fracture
0112045	France
0112046	French Guiana
0203013	Fruits
1006022	Fuel Cells
0112047	Gabon
0109006	Galapagos Islands
1013008	Galaxies, Stellar Systems
0112048	Gambia
0609016	Gas Turbines
1002019	Genetics
1005002	Geochemistry
1005003	Geodesy
0409002	Geographic Quantitative Methods
0409000	GEOGRAPHY
0409003	Geography, Economic
1007004	Geography, Environmental
0409004	Geography, Linguistic
1005004	Geography, Physical
0409005	Geography, Political
0409006	Geography, Social
0409007	Geography, Urban
1005005	Geology
1005006	Geology, Coastal
1005007	Geology, Economic
1005008	Geology, Marine
1005009	Geology, Physical
1005010	Geology, Structural
1010006	Geometry
1005011	Geomorphology
1013009	Geophysics
0606012	Geotechnical Engineering
0112049	German Democratic Republic (East Germany)
0112050	Germany, Federal Republic of (West Germany)
0112051	Ghana
1005012	Glaciology
0412002	Government Regulations
0412003	Government Studies
0201033	Grains
0307004	Graphic Design
1013010	Gravitation
0112052	Greece
0109007	Greenland
0109008	Guam
0112053	Guatemala
0112054	Guinea
0112055	Guinea-Bissau
0110009	Gulf of Mexico
0112056	Guyana
0112057	Haiti
0404011	Halfway Programs
0403008	Handicapped/Disabled
0114004	Hawaii
0700000	HEALTH AND SAFETY
0502017	Health and Safety Education
0701016	Health Care
0701017	Health Care Administration
0408006	Health Care Economics
0701019	Health Facilities Studies
0701020	Health Insurance
0701021	Health Maintenance Organizations
0701022	Health Manpower/Professions
0701023	Health Planning/Policy
0701025	Health Records
0701026	Health Services Delivery
0701015	Health, Allied Fields
0701018	Health, Environmental
0701024	Health, Radiation Effects
0609017	Heat Transfer
0609018	Heating, Ventilation and Air Conditioning
0108001	Hemisphere, Eastern
0108002	Hemisphere, Northern
0108003	Hemisphere, Southern
0108004	Hemisphere, Western
0201034	Herbicides
1002020	Herpetology
1013011	High Pressure Sciences
0403009	Hispanics
1002021	Histology
0309000	HISTORY
0309004	History & Appreciation of Art
0309005	History & Appreciation of Music
0309006	History of Law
0309007	History of Philosophy
0309008	History of Science and Technology
0309001	History, Ancient/Classical
0309002	History, Byzantine
0309003	History, Economic
0309009	History, Medieval
0309010	History, Modern
0309011	History, Oral
0309012	History, Renaissance
0503015	History/Philosophy of Education
0112058	Honduras
0201035	Horticulture
0404012	Hospices
0901019	Hotel & Restaurant Management
1102000	HOUSING
0110010	Hudson Bay
0608008	Human Factors Engineering
0413002	Human Reproduction/Fertility
0310001	Humanities Planning/Policy
0310000	HUMANITIES, GENERAL/OTHER
0502019	Humanities/Liberal Education
0112059	Hungary
0606013	Hydraulic Engineering
1005013	Hydrology
0112060	Iceland
1002022	Ichthyology
0403010	Illegal Aliens
0403011	Immigrants
1002023	Immunology
0112061	India
0110011	Indian Ocean
0112062	Indonesia

0609019	Industrial Design
0608000	INDUSTRIAL ENGINEERING
0608009	Industrial Relations
0608010	Industrial Systems Engineering
0901020	Industry
1004017	Information Science/Systems
1004018	Information Theory
0403012	Inner-City
0503016	Instructional Materials and Practices
0503017	Instructional Television
1013012	Instrumentation & Techniques (Physical Sciences)
1002024	Instrumentation, Biological
1005014	Instrumentation, Earth Sciences
1004019	Instrumentation, Medical (Computer Sciences)
1014001	Instrumentation, Scientific
0901021	Insurance
0307005	Interior Design
0201036	International Agriculture
0408007	International Economics
0412004	International Relations
0901022	International Trade & Finance
1013013	Interstellar Studies
0901023	Investments and Securities
0112063	Iran
0112064	Iraq
0112065	Ireland
0201037	Irrigation
0112066	Israel
0112067	Italy
0112068	Ivory Coast
0112069	Jamaica
0112070	Japan
0110012	Japan, Sea of
0320005	Jewelry/Metal Arts
0112071	Jordan
0313002	Journalism
0801018	Judicial/Law Administration
0311000	JURISPRUDENCE
0407006	Juvenile Delinquency
0112072	Kampuchea (Cambodia)
0112073	Kenya
0112074	Korea
0112075	Kuwait
0408008	Labor Economics
0201038	Land Management
1007006	Land Pollution
0307006	Landscape Architecture/Design
0606014	Landslides
0312000	LANGUAGE AND/OR LITERATURE
0312002	Language and/or Literature, Classical Greek
0312003	Language and/or Literature, Classical Latin
0312001	Language and/or Literature, Classical/Ancient
0312005	Language and/or Literature, Drama
0312006	Language and/or Literature, Fiction
0312007	Language and/or Literature, Medieval
0312008	Language and/or Literature, Modern
0312009	Language and/or Literature, Non-Fiction
0312010	Language and/or Literature, Poetry
0312011	Language and/or Literature, Renaissance
0312012	Language and/or Literature, Translation
0112076	Laos
0607009	Lasers (Engineering)
1013014	Lasers and Masers (Physical Sciences)
0113005	Latin America
0800000	LAW
0801021	Law Enforcement
0309006	Law History
0801001	Law, Administrative
0801002	Law, Agricultural
0801003	Law, Banking
0801004	Law, Business
0801005	Law, Civil
0801006	Law, Communications
0801007	Law, Constitutional
0801008	Law, Consumer
0801009	Law, Corporate
0801010	Law, Criminal
0801011	Law, Domestic Relations
0801012	Law, Educational
0801013	Law, Environmental
0801014	Law, Forensic
0801015	Law, Housing
0801016	Law, Immigration
0801017	Law, International and Comparative
0801019	Law, Juvenile
0801020	Law, Labor
0801022	Law, Maritime
0801023	Law, Military
0801024	Law, Mining
0801025	Law--Patents, Copyrights, Trademarks
0901024	Leadership
0503018	Learning Motivation
0112077	Lebanon
0502022	Legal Education
0112078	Lesotho
0112079	Liberia
1004020	Library Automation
1103000	LIBRARY SCIENCE
0112080	Libya
1002025	Limnology
0410000	LINGUISTICS
0503019	Literacy
0305002	Literary Criticism
0312004	Literature, Comparative
0201039	Livestock
1010007	Logic
1013015	Low Temperature Sciences
1015003	Lunar Sciences
0112081	Luxembourg
0609020	Machine Design
1004021	Machine Translation
0408009	Macroeconomics
0112082	Madagascar
1013016	Magnetics
0609021	Magnetohydrodynamics
0112083	Malawi
0112084	Malaysia
0112085	Maldives
0112086	Mali
0112087	Malta
1002026	Mammalogy
0901025	Management Information Systems
0901026	Management Sciences
0900000	MANAGEMENT/COMMERCE
0901027	Manpower Research

0609022	Manufacturing (Mechanical Engineering)
0608011	Manufacturing Processes (Industrial Engineering)
0319002	Manuscripts/Books/Music Scores
0109009	Mariana Islands
0609023	Marine Engineering
1008000	MARINE SCIENCES
0901028	Marketing
0201040	Marketing Agreements (Agriculture)
0901029	Marketing Research
0606015	Materials Engineering
1009009	Materials Processing and Finishing
0610001	Materials Processing Engineering
0606017	Materials Recovery
0606018	Materials Science (Engineering)
1009000	MATERIALS SCIENCES
0606019	Materials Testing
1009006	Materials, Amorphous
1009007	Materials, Composite
0606016	Materials, Engineering Properties
1009008	Materials, Polymeric
0701027	Maternal and Child Health
1010008	Mathematical Foundations
1010000	MATHEMATICS
0502023	Mathematics Education
1010003	Mathematics, Applied
1010005	Mathematics, Finite
0112088	Mauritania
0203014	Meat and Meat Products
0202021	Meat Inspection
0609000	MECHANICAL ENGINEERING
1009010	Mechanical Properties (Materials Sciences)
0609024	Mechanical Systems
0609025	Mechanics
0313000	MEDIA ARTS
0609026	Medical Devices Engineering
0701028	Medical Ethics
0701042	Medicine, Preventive
0110013	Mediterranean Sea
0701029	Mental and Emotional Health
1009011	Metallurgy
1009012	Metallurgy, Extractive and Process
1001005	Meteorology
0502025	Metric Education
0112089	Mexico
1002027	Microbiology
0408010	Microeconomics
0607010	Microelectronics
0607011	Microwave Theory
0103004	Middle East
0701030	Midwifery
0201041	Migrant Labor
0413003	Migration
0201042	Migratory Animals and Birds
1104000	MILITARY SCIENCES/MILITARY HISTORY
1005015	Mineral Resources
1005016	Mineralogy
1011000	MINING
0610000	MINING ENGINEERING
0403013	Minorities and Disadvantaged
0901030	Minority/Woman-Owned Business
1002008	Molecular Biology
0112090	Monaco
0112091	Mongolia
0112092	Morocco
0112093	Mozambique
0314000	MUSEUMS
0315000	MUSIC
0316003	Music Composition
0316004	Music Conducting
0305003	Music Criticism
0502026	Music Education
0309005	Music History & Appreciation
0316005	Music, Instrumental
0316006	Music, Vocal
0315001	Musicology/Music Theory
1002028	Mutagenics
1002029	Mycology
0112094	Namibia
0403014	Native Americans
0607012	Navigation & Guidance Systems
0112095	Nepal
0112096	Netherlands
1002030	Neuroscience
0114006	New England
0112097	New Zealand
0112098	Nicaragua
0112099	Niger
0112100	Nigeria
0113006	Non-Aligned/Third World Nations
0407007	Non-Violent/White-Collar Crime
0105000	NORTH AMERICA
0110014	North Sea
0112101	Norway
1003011	Nuclear Chemistry
1006010	Nuclear Energy
0609027	Nuclear Engineering
1012001	Nuclear Fission
0606021	Nuclear Materials Transport
1012002	Nuclear Medicine
1013023	Nuclear Physics
1012004	Nuclear Safety
1012000	NUCLEAR SCIENCES
0609028	Nuclear Technology
0606022	Nuclear/Radioactive Waste Disposal
1012003	Nuclear/Radioactive Wastes
1010009	Number Theory
1010010	Numerical Analysis
0606020	Numerical Models
0701031	Nurse Practitioner
0201043	Nursery Stock
0701032	Nursing
0502027	Nursing Education
0701033	Nursing Homes
0502028	Nutrition Education
0202022	Nutrition/Dietetics
0203015	Nuts
0701034	Occupational Safety & Health
1011001	Ocean Mining
1006023	Ocean Thermal Gradients
0106000	OCEANIA (Including Australia)
1008003	Oceanographic Facilities
1008004	Oceanography
1008005	Oceanography, Biological
1008006	Oceanography, Physical
0203016	Oils and Fats
0203017	Oilseeds
0112102	Oman
0316007	Opera/Musical Theatre
0901031	Operations Research
0608012	Operations Research (Engineering)
1010011	Operations Research (Mathematics)

0607013	Optical Communications
1013017	Optics
0701035	Optometry
1003012	Organic Chemistry
0417003	Organizational Theory & Behavior
0901032	Organizational Theory & Behavior (Mgmt./Comm.)
1002031	Ornithology
1100000	OTHER
0109010	Pacific Islands Trust Territory
0110015	Pacific Ocean
0701036	Pain
0320006	Painting
0112103	Pakistan
1005017	Paleontology
0112104	Panama
0112105	Papua New Guinea
0112106	Paraguay
0414010	Parapsychology
1002032	Parasitology
0503020	Parent Involvement
0901033	Parks & Recreation Management
0701037	Patient Care and Education
0607014	Pattern & Character Recognition (Engineering)
1004022	Pattern Recognition (Computer Sciences)
0606023	Pavements
1105000	PEACE/AMNESTY
0316000	PERFORMING ARTS
0901034	Personnel
0112107	Peru
0201044	Pest Management
0201045	Pesticides
1003013	Petroleum Chemistry
0611000	PETROLEUM ENGINEERING
1005018	Petroleum Science
1005019	Petrology
0701038	Pharmacology
0701039	Pharmacy
0112108	Philippines
0317000	PHILOSOPHY
0309007	Philosophy, History of
0503015	Philosophy/History of Education
0313003	Photography
1002033	Photosynthesis
1003014	Physical Chemistry
1013000	PHYSICAL SCIENCES
1013018	Physics
1013019	Physics, Atomic
1013020	Physics, Chemical
1013021	Physics, Elementary Particle
1013022	Physics, High Energy
1013023	Physics, Nuclear
1013024	Physics, Particle
1013025	Physics, Plasma
1013026	Physics, Radiation
1013027	Physics, Solar
1013028	Physics, Solid State
1013029	Physics, Theoretical
1002034	Physiological Processes
1013030	Planetary Studies
0411000	PLANNING/POLICY STUDIES
0201007	Planning/Policy, Agricultural
1006011	Planning/Policy, Energy
0701023	Planning/Policy, Health
0310001	Planning/Policy, Humanities
0411001	Planning/Policy, International
0901035	Planning/Policy, Management/Commerce
0411002	Planning/Policy, National
0411003	Planning/Policy, Public
0411004	Planning/Policy, Regional
0411006	Planning/Policy, Rural
1014002	Planning/Policy, Science
1016003	Planning/Policy, Technology
0606042	Planning/Policy, Transportation Engineering
0411007	Planning/Policy, Urban
1002035	Plant Breeding
1002036	Plant Diseases/Pathology
1002037	Plant Genetics
1002038	Plant Nutrition
1002039	Plant Physiology
1002040	Plant Sciences
1002041	Plant Virology
0201046	Plant/Soil Nutrient Bioavailability
0609029	Plasticity
0503021	Play
0701040	Poison Control
0112109	Poland
0412005	Political Behavior
0408011	Political Economics
0412000	POLITICAL SCIENCE
0412006	Political Theory
0201047	Pollen and Pollination
1007005	Pollution, Air
1007006	Pollution, Land
1007007	Pollution, Noise
1007008	Pollution, Water
1009013	Polymer Science
0109011	Polynesia
0413004	Population Biology
0413005	Population Control
0413000	POPULATION STUDIES
0112110	Portugal
0203018	Poultry Products
0201048	Poultry Science
0404013	Poverty and the Poor
1001006	Precipitation
0901036	Price Change
0320007	Print Making
0405002	Print Media
1010012	Probability
1001007	Probes and Satellites, Atmospheric
1015004	Probes and Satellites, Space
0605001	Process Development Engineering
0201049	Production Economics and Management (Agriculture)
0608013	Production Engineering
0609030	Propulsion
0414012	Psychobiology
0414000	PSYCHOLOGY
0414001	Psychology, Analytical
0414002	Psychology, Applied
0414003	Psychology, Behavioral
0414004	Psychology, Clinical
0414006	Psychology, Developmental
0414007	Psychology, Educational
0414008	Psychology, Humanistic
0414009	Psychology, Industrial
0414011	Psychology, Physiological
0414014	Psychology, Social
0414013	Psychometrics
0901037	Public Administration
0701043	Public Health
0411003	Public Planning/Policy
0901039	Public Relations
1004023	Publishing, Electronic
0901040	Purchasing/Procurement

0112111	Qatar
0608014	Quality Control (Engineering)
0901041	Quality/Product Control
0404014	Racism/Race Relations
0607016	Radar
1002009	Radiation Biology
0313004	Radio
1013031	Radiosources, Infrared, X-Ray, Gamma Ray
0607017	Range and Tracking Systems
0201050	Range Management
0404015	Rape/Sexual Abuse
0901042	Real Estate
1106000	RECREATION & LEISURE STUDIES
0110016	Red Sea
0403015	Refugees
0307007	Regional/Urban Design
0415000	REHABILITATION/THERAPY
0415001	Rehabilitation/Therapy, Emotional/Social
0415002	Rehabilitation/Therapy, Occupational/Vocational
0415003	Rehabilitation/Therapy, Physical
1013032	Relativity
0608015	Reliability (Engineering)
0318000	RELIGIOUS STUDIES
1001008	Remote Sensing (Atmospheric Sciences)
1005020	Remote Sensing (Earth Sciences)
0607018	Remote Sensing (Electronics & Electrical Engineering)
1002042	Reproduction
0319000	RESTORATION AND PRESERVATION
0411005	Risk Analysis
0607019	Robotics (Electronics & Electrical Engineering)
0609031	Robotics (Mechanical Engineering)
0606024	Rock Mechanics
0112112	Romania
0112113	Rwanda
0701044	Safety
0112114	Saint Lucia
0109012	Samoa
0606025	Sanitary Engineering
0606026	Sanitary Engineering, Environmental Impacts
0112115	Sao Tome & Principe
0112116	Saudi Arabia
0104004	Scandinavia
0501009	School Desegregation
0404016	School Food Programs
0501010	School Organization
1000000	SCIENCE & TECHNOLOGY/ MATHEMATICS/ COMPUTER SCIENCE
0502031	Science Education
1014002	Science Planning/Policy
1014000	SCIENCE, GENERAL/OTHER
0320008	Sculpture
1008007	Sea Water Properties
0203019	Seafood
1005021	Sedimentology
0201051	Seed Production
1005022	Seismology
0112117	Senegal
0307008	Set/Theatre Decoration/Design
0502032	Sex Education
0404018	Sex Roles
0112118	Seychelles
0112119	Sierra Leone
0112120	Singapore
0901043	Small Business
0404019	Smoking Behavior
0417004	Social Measurement and Indicators
0416000	SOCIAL SERVICES
0404017	Social Services Delivery
0417005	Social Stratification/Mobility
1002043	Sociobiology
0417006	Sociological Theory
0417000	SOCIOLOGY
0502034	Sociology Education
0417001	Sociology, Applied
0417002	Sociology, Comparative
0606027	Soil Mechanics & Foundations
0201052	Soil Sciences
0201053	Soil Sciences, Conservation
0201054	Soil Sciences, Erosion
0201055	Soil Sciences, Soil Genesis
0606028	Soil/Structure Interaction
0609032	Solar Heating
1013033	Solar Studies
0609033	Solid Mechanics
0606029	Solid Waste Disposal
0112121	Solomon Islands
0112122	Somalia
0112123	South Africa
0107000	SOUTH AMERICA
0113007	Soviet Bloc
0112124	Soviet Union (USSR)
1015000	SPACE SCIENCES
0112125	Spain
1013034	Spectroscopy
0701045	Speech Pathology (See Also: Communication Disorders)
0203020	Spices and Flavorings
0112126	Sri Lanka (Ceylon)
1010013	Statistics
0901044	Statistics, Business
0606030	Steel Structures
0201056	Stockyards
1005023	Stratigraphy
0701046	Stress
0606031	Structural Analysis
0606032	Structural Design
0606033	Structural Dynamics
0606034	Structural Engineering
0319003	Structural/Architectural Restoration & Preservation
0606035	Structure Reliability
0112127	Sudan
0203021	Sugar
0404020	Suicide
1009014	Superconductivity (Materials Sciences)
1013035	Superconductivity (Physical Sciences)
0112128	Suriname
0607021	Surveillance Systems
0404021	Surveys
0112129	Swaziland
0112130	Sweden
0112131	Switzerland
1013036	Synchrotron Radiation

0112132	Syria
0607022	Systems Engineering
0112133	Taiwan (Nationalist China)
0112134	Tanzania
0901045	Taxes and Taxation
0203022	Tea
0503022	Teacher Attitudes
1016000	TECHNOLOGY
1016002	Technology Assessment
1016003	Technology Planning/Policy
1016004	Technology Transfer
1016001	Technology, Appropriate
1005024	Tectonics
1016005	Telecommunications
0607023	Telemetry
0404022	Terrorism
0320009	Textile/Weaving Arts
1017000	TEXTILES
0112135	Thailand
0305004	Theatre/Film Criticism
1013037	Thermodynamics
0609034	Thermodynamics Engineering
1006024	Thermosciences
0609035	Thermosciences Engineering
0112136	Tibet
0201057	Tobacco
0112137	Togo
1010014	Topology
1007009	Toxicology
0606036	Traffic Engineering
0701047	Traffic Safety
0606037	Transportation Engineering
0606038	Transportation Engineering Design
0606039	Transportation Engineering Economics
0606042	Transportation Engineering Planning/Policy Studies
0606040	Transportation Engineering, Environmental Impacts
0606041	Transportation Engineering, Intermodal Studies
0606043	Transportation Surveys
0701048	Trauma
1010015	Trigonometry
0112138	Trinidad and Tobago
0112139	Tunisia
0606044	Tunnels
0609036	Turbomachinery
0112140	Turkey
0112141	Uganda
0607024	Ultrasonic Technology
0605002	Unit Operations Engineering
0112142	United Arab Emirates
0112143	United Kingdom (Great Britain and Northern Ireland)
0112144	United States
0114002	United States, Atlantic Central
0114003	United States, Great Lakes
0114005	United States, Midwest
0114007	United States, Northeast
0114008	United States, Northwest
0114009	United States, Southeast
0114010	United States, Southwest
1107000	UNIVERSITY/INDUSTRY COOPERATIVE ACTIVITIES
0112145	Upper Volta
0112146	Uruguay
0901046	Utilities
0608016	Value Engineering
0203023	Vegetables
0112147	Venezuela
1002044	Vertebrate Physiology
0403016	Veterans
0201058	Veterinary Medicine
0201059	Veterinary Toxicology
0407008	Victimization/Compensation
0112148	Vietnam
0404023	Violent Behavior
1002045	Viral Studies
0109013	Virgin Islands
1002046	Vision
0320000	VISUAL ARTS
0406003	Vocational Counseling
0403017	Volunteers
0501013	Volunteers (Education)
0606022	Waste Disposal, Nuclear/ Radioactive
0606029	Waste Disposal, Solid
0201060	Waste Management (Agriculture)
0606045	Waste Water Treatment
1012003	Wastes, Nuclear/Radioactive
1007008	Water Pollution
0201061	Water Resources (Agriculture)
0606046	Water Resources (Engineering)
0606047	Water Resources Management/ Planning
1007010	Water Resources, Environmental Impacts
0606048	Water Supply
0606049	Water Treatment
0606050	Waterways and Harbors
1001009	Weather Modification
0201062	Weed Sciences
0109014	West Indies
0201063	Wildlife
0403018	Women
0201064	Wood
1004024	Word/Text Processing (Computer Sciences)
0901047	Word/Text Processing (Management/Commerce)
0404024	Work Motivation
0110017	Yellow Sea
0112149	Yemen
0112150	Yugoslavia
0112151	Zaire
0112152	Zambia
0112153	Zimbabwe (Rhodesia)
1002047	Zoology

KEYWORD THESAURUS PROJECT NEWSLETTER - January 19, 1983

Dear KT Participants:

The beginning of the New Year seems an appropriate time to take stock of where we are in the Keyword Thesaurus Project. This letter is being sent to all participants to update you on the status of this project.

Agency representatives and university consultants met briefly in Washington in November and clarified some points on coding and procedures. Dr. Lynn Carroll Carroll is implementing this project at NSF and reported that, to his surprise, the NSF Program Officers were enthusiastic about the project and even though the coding was time-consuming, they liked the idea of the thesaurus and standardizing keywords and codes. The tone of the meeting was very positive, and both university and government participants were quite optimistic about the progress to date and the potential benefits of this program.

The first coded program announcement was that of NEH's Division of Education Programs. NSF has coded a number of program announcements, and we should be seeing those very soon. The NSF Bulletin for February will be coded and will also contain a very short description of the project by way of explaining the significance of the codes to those who are not participating in the project. NEH will also publish a very brief explanation in its publications. NIE will also be coding its announcements in the near future. NSF will not be coding its RFP's, since only five percent of them go to academic institutions, while the remaining ninety-five percent go to business or industrial firms.

NSF has awarded the project an additional $6,000 to enable us to increase the number of colleges and universities participating in the project. Approximately 130 institutions have requested and received copies of the Thesaurus. In an effort to increase the level of participation, we sent out fliers to everyone on the mailing list of The National Council of University Research Administrators (NCURA) - about 1,600 persons. (Some of you who are already participating may have received a copy of the flier.) We have received over 200 additional requests to participate in the project, and we hope to have a total of 350 participants. We are quite pleased with the response of the college and university research offices.

Recent conversations with OMB officials regarding possible governmentwide implementation of the Keyword Thesaurus were quite encouraging. Depending upon the success of the current project, number of participants, savings, etc., we may finally get an OMB circular that colleges and universities support.

For those of you who have not yet returned your Evaluation Forms, let me urge you to get those in to me in the near future. Also, please take the time to make suggestions for improvements in the Thesaurus. We hope that your record-keeping will require very little staff time, but it will be crucial to this project. We need everyone's help to make the project as successful as possible. We appreciate your participation and hope that the Keyword Thesaurus Project will prove very beneficial to your institution. If you have any questions, suggestions, comments, etc., please contact us at AC 214/690-2211.

John Rodman

John A. Rodman
Project Director

KEYWORD THESAURUS PROJECT NEWSLETTER - June 21, 1983

Dear KTP Participants:

To date, we have sent the Keyword Thesaurus to just over 700 persons who requested it in behalf of colleges and universities, libraries, publishing houses, and business firms. We ask you to continue evaluating the project through December 31, 1983. We will need your support in the form of suggestions for revisions as well as your evaluation of the effectiveness of the Thesaurus in helping you to identify the content of coded vs. uncoded announcements and to match the announcements to the appropriate faculty members.

A number of medical schools and several hospitals requested the Thesaurus, but found that it would be of limited use to them since it contains few medical terms. I plan to visit with NIH representatives in Bethesda on June 27 to discuss including a list of medical terms in a revised Thesaurus. When I talked with OMB officials in January, they indicated that at least two requirements must be fulfilled before government-wide implementation of the Thesaurus could be possible:

(1) We must present them with a more comprehensive Thesaurus (i.e., one that includes medical terms), and
(2) We must obtain the support of the various higher education organizations at 1 Dupont Circle in Washington.

Most of you probably saw the NSF article on the Thesaurus (NSF Bulletin, February, 1983, page 1). Items began to be coded in the April issue, and several NSF program announcements have also appeared with the codes attached. For those of you who may not have seen them, below are a few examples taken from the June, July, August Bulletin:

June 1, 1983. U.S.-Federal Republic of Germany Cooperative Science. Semi-annual deadline for proposals for joint research, seminars, and long-term research visits. Contact Dr. Warren Thompson, Division of International Programs (357-9700). [P.T. 34, 42, 48; Loc. 0112050; K.W. 0400000, 0600000, 1000000]

Aug. 1, 1983. Anthropology. For research beginning after Feb. 1, 1984. Contact Dr. Stephen Brush, Division of Behavioral and Neural Sciences (357-7804). [P.T. 34; K.W. 0401000]

Aug. 1, 1983. Very Large Scale Integration (VLSI) Fast Turnaround Fabrication Service for Universities. (Brochure NSF 83-43). Contact Dr. Andrew Molnar, Office of Scientific and Engineering Personnel and Education (357-7539). [P.T. 18, 34; 40; K.W. 0502031, 0607000, 1004000]

Aug. 3, 1983. Information Science and Technology. Special research initiation awards for new investigators. (Brochures NSF 81-34 and NSF 81-69). Contact Dr. Edward Weiss, Division of Information Science and Technology (357-9572). [P.T. 34; K.W. 1004017, 1004018, 1004022, 1004024]

Let me once again urge those of you who have not returned the Background Information section of the Evaluation Forms, to get those two pages to us at your earliest convenience.

Our thanks to all those who have taken the time to send us your comments and suggestions. We will go over your feedback very carefully in attempting any future revisions. Your assistance and support on both the revisions and implementation of the Thesaurus are needed if we are to have a comprehensive government-wide document to assist all of us.

Have a good summer.

John Rodman

John A. Rodman
Project Director

John A. Rodman, Director
Keyword Thesaurus Project
Office of Sponsored Projects
University of Texas at Dallas
P.O. Box 688
Richardson, TX 75080

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KEYWORD THESAURUS PROJECT UPDATE
FOR NEW PARTICIPANTS
March 24, 1983

Dear KTP Participants:

The enclosed materials are identical to those sent last summer to the 130 institutions who first requested the Keyword Thesaurus. Approximately 500 institutions have already requested and received the Thesaurus and this week we are mailing out 150 more. We are sending them to everyone who requested them (one per institutional unit), including medical schools, although the Thesaurus does not contain any biomedical terms. Perhaps some future version will include terms and codes suitable for NIH announcements.

We realize, of course, that not everyone who receives the Thesaurus will actually participate in the project, but we hope that most of you will choose to be a part of the experiment. Since it took longer than anticipated for all of us - agencies and institutions - to gear up, it appears that an extension of the project will probably be requested in order to give the project a fair trial period.

Please send us the 2-page Questionnaire at your earliest convenience. The first shipment of the monthly worksheets will be due on June 30. Please take the time to make suggestions for improvements in the Thesaurus. We hope that your recordkeeping will require very little staff time, but it will be crucial to this project. We need everyone's help to make this project as successful as possible. We appreciate your participation and hope that the Keyword Thesaurus Project will prove very beneficial to your institutions. If you have any questions, suggestions, comments, etc., please contact us at AC 214/690-2211.

Depending upon the success of the current project, number of partipants, savings, etc., we may finally get an OMB circular that colleges and universities support.

John Rodman

John A. Rodman
Project Director

June 28, 1982

Dear Colleague:

Attached at long last is your copy of the Keyword Thesaurus developed under an NEH/NSF grant, along with the evaluation Questionnaire and record keeping form. First, I want to thank you personally for agreeing to participate in this experimental project and we hope this effort will be very beneficial to your University.

The Thesaurus includes over 1200 "research" terms divided into ten major disciplines, an alphabetical listing of terms, a seven digit code for each term, an Introduction to describe the usage of the Thesaurus, and a list of program types along with their codes.

Secondly, we feel that this is a comprehensive thesaurus but are also requesting your help in improving its value for the user. In order to evaluate the effectiveness of this project and to determine possible government-wide implementation it will be necessary for you to help us by completing the Evaluation Questionnaire:

Section I Background Information should be completed and returned no later than September 1, 1982.

Sections II and III should be completed at the termination of the project and forwarded to UTD by October 31, 1983.

The monthly worksheets should be completed and fowarded to UTD on a quarterly basis (December 31, 1982; March 31, 1983; June 30, 1983; September 30, 1983).

Please send all information to:

Ms. Elizabeth Hudson
Office of Sponsored Projects FN 3.1
The University of Texas at Dallas
P. O. Box 688
Richardson, Texas 75080

The Faculty Evaluation is a suggested form to get recipient input and value. You may prefer to develop your own form or use another instrument to obtain this information. (NOTE: It is very important that we receive some type of evaluation from the faculty, department chairmen and deans.) A summary should be forwarded along with Sections II and III by October 31, 1983.

Thirdly, NSF, NEH and NIE have a copy of the Thesaurus and are commencing keywording and coding of program announcements, RFP's, etc. Due to the lead time in government printing it will probably be October before these printed documents reach your office; therefore, October 1 will be the effective date for you to begin record keeping for this project. We hope that during July, August and September you will be developing your faculty profiles based on this Thesaurus and can begin implementation October 1, 1982.

Finally, we feel that staff time for record keeping is minimal but essential to determine the success of the project and government wide implementation. Again, thanks for your participation, good luck, and if you have any questions please contact me at 214/690-2211.

Sincerely,

John Rodman

John A. Rodman
Director

EVALUATION UTD 6/82

NSF/NEH Funded Pilot Project

"The Development and Implementation of a Keyword Thesaurus"

QUESTIONNAIRE

Name of Respondent _____

Title of Respondent _____

Institution _____

Address _____

_____ Phone No.: _____

I. BACKGROUND INFORMATION

A. Institution

Number of students FY '82	FTE	Headcount
(a) Undergraduate	_____	_____
(b) Graduate & Professional	_____	_____

Number of Faculty: Full Time _____

Part Time _____

B. Sponsored Funds Volume	FY81	FY82
Number of Proposals	_____	_____
Number of Awards	_____	_____
$ Amount of Externally Funded Research:	_____	_____
Total $ Amount of Sponsored Activity:	_____	_____

C. Office of Sponsored Projects

Number of Office Staff (FTE)	FY81	FY82
Professional Staff:	_____	_____
Secretarial/Clerical:	_____	_____
Students:	_____	_____
Office Budget (optional)	$_____	$_____

Office reports to:

(a) Graduate Dean _____ (d) VP/VC Research _____

(b) VP Academic Affairs/Provost _____ (e) President _____

(c) VP/VC Business Affairs _____ (f) Other _____

D. During the past year, what portion of the office staff effort was spent in the review and dissemination of program announcements:

_____Total FTE _____Headcount

E. Please check which services the Research Office provides:

Pre-Award

a) Proposal Development ____
b) Resource Identification ____
c) Newsletter/Info. Dissemination ____
d) Proposal Typing ____
e) Editing/Writing Assistance ____
f) Budgeting ____
g) Monitoring Proposal Submission ____
h) Proposal Processing/ Mailing ____
i) Negotiations ____
j) Agency Liaison ____
k) Other (please identify) ____

Post-Award

a) Establishing Accounts ____
b) Reports ____
c) Monitoring Expenditures ____
d) Budget Revisions ____
e) Expense Summaries ____
f) Indirect Cost Neg. ____
g) Audit Disallowances ____
h) Other (please list) ____

II. KEYWORD THESAURUS:

A. Comprehensiveness of Thesaurus: Are the major terms of interest to you included?

1. Please indicate how comprehensive you found the Thesaurus:

0 1 2 3 4 5 6 7 8 9 10
Not at all Comprehensive — Moderately Comprehensive — Comprehensive

2. Specific Comments: Please attach a list of any subject areas you feel should be added, deleted, or substituted.

B. Wording of Terms in the Thesaurus: Are the terms in the Thesaurus adequately descriptive and precise?

1. Please indicate your estimation of the descriptive wording of the terms.

0 1 2 3 4 5 6 7 8 9 10
Low — Medium — High

2. Do you feel that the terms in the Thesaurus are (check one):

____Not specific enough
____Adequate
____Too specific

3. Specific comments: Please attach a list of any terms which you feel are ambiguous, too broad, or too specific/limited.

C. Organization and Coding of Thesaurus: Are the terms appropriately organized and coded?

1. Please indicate your estimation of the organization and coding of the Thesaurus:

0 1 2 3 4 5 6 7 8 9 10
Low — Medium — High

D. Overall Value of Thesaurus:
Please indicate your judgement of the overall value of the Thesaurus:

0 1 2 3 4 5 6 7 8 9 10
Not at all Valuable — Moderately Valuable — Very Valuable

If of low value, explain why:

E. Please list any problems you experienced in using the Thesaurus:

F. Other uses of Thesaurus:
Please check current or planned uses of terms in Thesaurus:

	Current	Planned
1. Proposal/Award Statistics	_____	_____
2. Assuming a database of faculty expertise, using terms or codes in Thesaurus:		
a. Faculty Research Directory	_____	_____
b. Donor Gifts to University	_____	_____
c. Speakers Bureau	_____	_____
d. Consultants Bureau	_____	_____
e. Site Visits	_____	_____
f. Campus Visitors	_____	_____
g. Identification of Appropriate Faculty for Graduate Students' Assistance	_____	_____
3. Other uses (Please specify):		

III. KEYWORD PROJECT EVALUATION

A. How did you match terms from the Keyword Thesaurus to your faculty's expertise?

_____Card File
_____Human Resource
_____Other

Computerized System:
_____Word Processor
_____Micro/Mini Computer
_____Main Frame Computer

B. In your opinion, did the project provide an overall enhancement in your ability to disseminate information?

Yes_____ No_____

If yes, was the information:

(a) More appropriately targeted? Yes_____ No_____

(b) More timely? Yes_____ No_____

Comments:

C. What reactions, if any, have you received from your faculty? (Note: This is very important input if we are to implement this program government-wide. A brief faculty questionnaire is attached for your information and use.)

D. In your opinion, how effective were the federal agencies in appropriately keywording and coding each announcement?

0 1 2 3 4 5 6 7 8 9 10
Ineffective — Moderately Effective — Very Effective

Please comment by specific agency:

E. Organizational Impact:

How has the utilization of the keyword system affected your organizational structure or processes (e.g., shift in responsibility or level of resource identification, reorganization of office, time savings)? Has it had a financial impact?

F. Summary of Records kept during project:

	Coded	Uncoded
1. Number of announcements read	_____	_____
2. Number of individual announcements forwarded	_____	_____
3. Number of persons sent announcements	_____	_____

4. Your overall perception of handling announcements

	Coded	No difference	Uncoded
(a) Easier(mark one column)	____	_____	_____
(b) Faster(mark one column)	____	_____	_____

Comments:

G. Would you find it helpful to have all federal RFP's and program announcements coded?

Yes____ No____ No opinion____

H. Please rate the overall value of the project:

0 1 2 3 4 5 6 7 8 9 10
Not at all Valuable — Moderately Valuable — Very Valuable

I. Additional comments are welcome.

FACULTY EVALUATION
OF
INFORMATION DISSEMINATION SERVICES

1. Are you included in a database for dissemination of information on research, demonstration, training, service, and fellowship awards?

2. Approximately how many such notices have you received since _____(date)?

   Of these, what percentage came from the following sources:

   _____ Research Administration Office
   _____ Dean/Department Head/Program Head
   _____ Colleagues
   _____ Other (please specify):

3. Generally, how appropriate have notices distributed by the Research Administration Office been in relation to your areas of interest?

0	1	2	3	4	5	6	7	8	9	10
Not at all Appropriate				Somewhat Appropriate					Very Appropriate	

4. Generally, how timely have such notices been?

0	1	2	3	4	5	6	7	8	9	10
Too late to submit application				Provided just time enough					Provided ample time	

5. Please list your suggestions for improvement of information dissemination services:

FOR THE MONTH OF _____

INSTITUTION _____
NAME OF RESPONDENT _____
TITLE OF RESPONDENT _____
PHONE NUMBER _____

Note: Copies of worksheets to be submitted quarterly - December 31, March 31, June 30, September 30

	WEEK 1		WEEK 2		WEEK 3		WEEK 4		WEEK 5		TOTALS	
	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED
NO. OF ANNOUNCEMENTS READ												
NO. OF INDIVIDUAL ANNOUNCEMENTS FORWARDED												
NO. OF PERSONS SENT ANNOUNCEMENTS												

PERCEPTION OF COMPARATIVE EASE OF HANDLING CODED VS. UNCODED ANNOUNCEMENTS:

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
CODED EASIER	_____	_____	_____	_____	_____
NO DIFFERENCE	_____	_____	_____	_____	_____
UNCODED EASIER	_____	_____	_____	_____	_____

Please list on the back any terms you feel should be added, deleted, or substituted.

General Comment:

FOR THE MONTH OF _____

INSTITUTION _____
NAME OF RESPONDENT _____
TITLE OF RESPONDENT _____
PHONE NUMBER _____

Note: Copies of worksheets to be submitted quarterly - December 31, March 31, June 30, September 30

	WEEK 1		WEEK 2		WEEK 3		WEEK 4		WEEK 5		TOTALS	
	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED	CODED	UNCODED
NO. OF ANNOUNCEMENTS READ												
NO. OF INDIVIDUAL ANNOUNCEMENTS FORWARDED												
NO. OF PERSONS SENT ANNOUNCEMENTS												

PERCEPTION OF COMPARATIVE EASE OF HANDLING CODED VS. UNCODED ANNOUNCEMENTS:

	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
CODED EASIER	_____	_____	_____	_____	_____
NO DIFFERENCE	_____	_____	_____	_____	_____
UNCODED EASIER	_____	_____	_____	_____	_____

Please list on the back any terms you feel should be added, deleted, or substituted.

General Comment: